Pensieve header: Computing the 1-smidgen invariant on all knots in the Rolfsen table, with Logos set to 0.

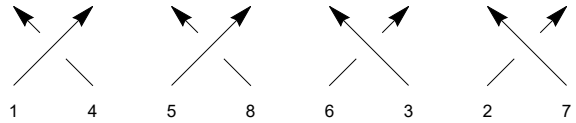
```
SetDirectory["C:\\drorbn\\AcademicPensieve\\2016-09"];
Once[<< KnotTheory`]
```

```
Loading KnotTheory` version of September 6, 2014, 13:37:37.2841.
Read more at http://katlas.org/wiki/KnotTheory.
```

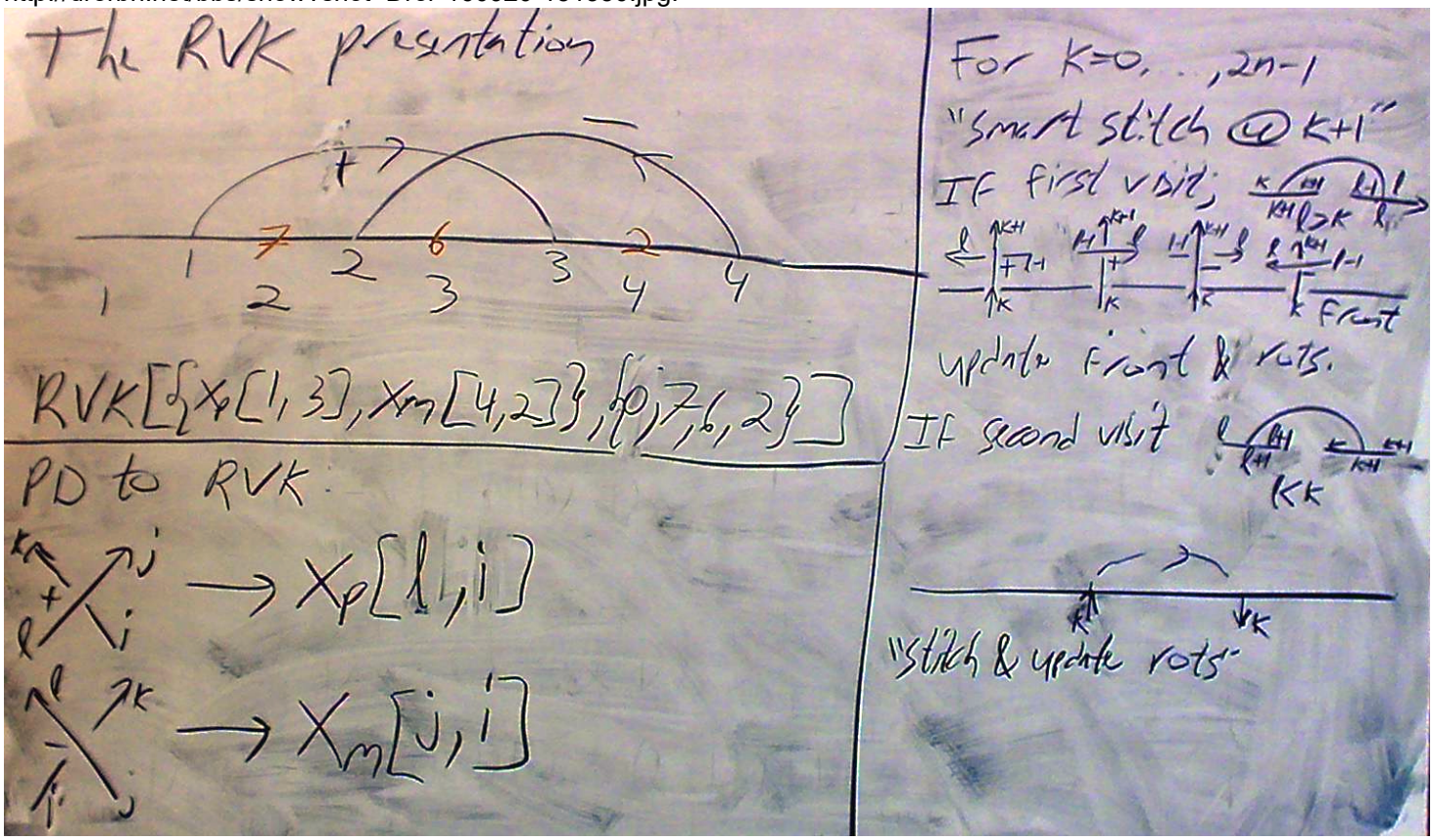
Rotational Virtual Knots

```
Draw[xs_List] := Module[{k = -2}, Graphics[{Arrowheads[0.15 / Length[xs]], xs /. {
      Xp[i_, j_] :> {
        Arrow@{{k += 2, 0}, {k + 1, 1}},
        Line@{{k + 1, 0}, {k + 2 / 3, 1 / 3}}, Arrow@{{k + 1 / 3, 2 / 3}, {k, 1}},
        Text[i, {k, -1 / 3}], Text[j, {k + 1, -1 / 3}]
       },
      Xm[i_, j_] :> {
        Arrow@{{(k += 2) + 1, 0}, {k, 1}},
        Line@{{k, 0}, {k + 1 / 3, 1 / 3}}, Arrow@{{k + 2 / 3, 2 / 3}, {k + 1, 1}},
        Text[j, {k, -1 / 3}], Text[i, {k + 1, -1 / 3}]
       }
     }}, ImageSize → 75 Length[xs]]]
```

```
Draw@{Xp[1, 4], Xp[5, 8], Xm[3, 6], Xm[7, 2]}
```



Some details of the code below are at http://drorbn.net/bbs/show?shot=Dror-160920-151350.jpg:



```
RVK::usage =
  "RVK[xs, rots] represents a Rotational Virtual Knot with a list of n Xp/Xm crossings xs and
    a length 2n list of rotation numbers rots. Crossing sites are indexed 1 through
    2n, and rots[[k]] is the rotation between site k-1 and site k. RVK is also a casting
    operator converting to the RVK presentation from other knot presentations.";
RVK[pd_PD] := Module[{n, xs, x, rots, front, k},
   n = Length[pd];
   xs = List @@ pd /. x_X :> If[PositiveQ[x], Xp[x[[4]], x[[1]]], Xm[x[[2]], x[[1]]]];
   rots = Table[0, {2 n}];
   front = {0};
   For[k = 0, k < 2 n, ++k,
    If[k == 0 ∨ FreeQ[front, -k],
     front = Flatten[front /. k → Catch[xs /. {
             Xp[k + 1, l_] | Xm[l_, k + 1] :> Throw[{l, k + 1, 1 - l}],
             Xp[l_, k + 1] | Xm[k + 1, l_] :> (++rots[[l]]; Throw[{1 - l, k + 1, l}])
            }]],
     If[MatchQ[front, {___, k, ___, -k, ___}], --rots[[k + 1]]
    ]
   ];
   RVK[xs, rots]
  ];
RVK[K_] := RVK[PD[K]];
```

? RVK

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RVK[xs, rots] represents a Rotational Virtual Knot with a list of n Xp/Xm crossings xs and a length 2n list of rotation numbers rots. Crossing sites are indexed 1 through 2n, and rots[[k]] is the rotation between site k–1 and site k. RVK is also a casting operator converting to the RVK presentation from other knot presentations.

```
Column[Table[K → RVK[K], {K, AllKnots[{3, 7}]}]]
```

KnotTheory: Loading precomputed data in PD4Knots`.

```
Knot[3, 1] → RVK[{Xm[4, 1], Xm[6, 3], Xm[2, 5]}, {0, 0, 0, -1, 0, 0}]
Knot[4, 1] → RVK[{Xp[1, 4], Xp[5, 8], Xm[3, 6], Xm[7, 2]}, {0, 0, 0, -1, 0, 0, -1, 0}]
Knot[5, 1] → RVK[{Xm[6, 1], Xm[8, 3], Xm[10, 5], Xm[2, 7], Xm[4, 9]}, {0, 0, 0, 0, 0, -1, 0, 0, 0, 0}]
Knot[5, 2] → RVK[{Xm[4, 1], Xm[8, 3], Xm[10, 5], Xm[6, 9], Xm[2, 7]}, {0, 0, 0, -1, 0, 0, 0, 0, 1, -1}]
Knot[6, 1] →
 RVK[{Xm[4, 1], Xm[10, 7], Xp[8, 3], Xp[2, 9], Xm[12, 5], Xm[6, 11]}, {0, 0, 0, -1, 0, 0, 0, 0, -1, 0, 1, -1}]
Knot[6, 2] →
 RVK[{Xm[4, 1], Xm[10, 5], Xp[8, 3], Xp[2, 9], Xm[12, 7], Xm[6, 11]}, {0, 0, 0, -1, 0, 0, 0, 0, -1, 0, 0, 0}]
Knot[6, 3] →
 RVK[{Xp[1, 4], Xp[3, 8], Xm[9, 12], Xm[5, 10], Xm[11, 6], Xp[7, 2]}, {0, 0, 0, -1, 0, 0, 0, 0, 0, 1, 0, 0}]
Knot[7, 1] → RVK[{Xm[8, 1], Xm[10, 3], Xm[12, 5], Xm[14, 7], Xm[2, 9], Xm[4, 11], Xm[6, 13]},
  {0, 0, 0, 0, 0, 0, 0, -1, 0, 0, 0, 0, 0, 0}]
Knot[7, 2] → RVK[{Xm[4, 1], Xm[10, 3], Xm[14, 5], Xm[12, 7], Xm[8, 11], Xm[6, 13], Xm[2, 9]},
  {0, 0, 0, -1, 0, 0, 0, 0, 0, 0, 1, -1, 1, -1}]
Knot[7, 3] → RVK[{Xp[1, 6], Xp[3, 10], Xp[7, 14], Xp[13, 8], Xp[5, 12], Xp[9, 2], Xp[11, 4]},
  {0, 0, 0, 0, 0, -1, 0, 0, 0, 0, 0, 0, 1, -1}]
Knot[7, 4] → RVK[{Xp[1, 6], Xp[5, 12], Xp[7, 14], Xp[13, 8], Xp[11, 2], Xp[3, 10], Xp[9, 4]},
  {0, 0, 0, 0, 0, -1, 0, 0, 0, -1, 1, 0, 1, -1}]
Knot[7, 5] → RVK[{Xm[4, 1], Xm[10, 3], Xm[12, 5], Xm[14, 7], Xm[6, 13], Xm[8, 11], Xm[2, 9]},
  {0, 0, 0, -1, 0, 0, 0, 0, 0, 0, 1, -1, 0, 0}]
Knot[7, 6] → RVK[{Xm[4, 1], Xm[8, 3], Xm[12, 5], Xp[14, 9], Xp[10, 13], Xm[6, 11], Xm[2, 7]},
  {0, 0, 0, -1, 0, 0, 0, 0, 0, 0, 1, -1, -1, 1}]
Knot[7, 7] → RVK[{Xm[4, 1], Xm[10, 5], Xp[8, 3], Xp[2, 9], Xm[14, 11], Xp[12, 7], Xp[6, 13]},
  {0, 0, 0, -1, 0, 0, 0, 0, -1, 0, 0, 0, -1, 0}]
```

NOE-It

Logos

```
Λ[k_] := 0 (1 - t_k) (α^2 β^2 + 4 α β δ μ + 2 δ^2 μ^2) / 2 + 2 μ^2 (α β + δ μ) c_k - β (2 μ - 1) (α β + 2 δ μ) u_k +
   2 β δ μ^2 c_k u_k - β^2 δ (3 μ - 1) * u_k^2 / 2 + α (α β + 2 δ μ) w_k + 2 α δ μ^2 c_k w_k - 2 (t_k - 1) δ^2 (α β + δ μ) u_k w_k +
   2 δ^2 μ^2 c_k u_k w_k - β δ^2 (2 μ - 1) * u_k^2 w_k + α^2 δ (1 + μ) w_k^2 / 2 + α δ^2 u_k * w_k^2 - (t_k - 1) δ^4 * u_k^2 * w_k^2 / 2;
```

```
DP_{x_→D_α, y_→D_β}[P_][f_] := (* means P[∂_α, ∂_β][f] *)
 Total[CoefficientRules[P, {x, y}] /. ({m_, n_} → c_) :> c D[f, {α, m}, {β, n}]]
```

```
CF[𝔼[ω_, L_, Q_, P_]] := Expand /@ Together /@
    𝔼[ω /. b_ι_ :> Log[t_ι], L, Q /. b_ι_ :> Log[t_ι], P /. b_ι_ :> Log[t_ι]];
𝔼 /: 𝔼[ω1_, L1_, Q1_, P1_] 𝔼[ω2_, L2_, Q2_, P2_] := CF@𝔼[ω1 ω2, L1 + L2, ω2 Q1 + ω1 Q2, ω2^4 P1 + ω1^4 P2];
```

```
N_{u_i_ c_j_→k_}[𝔼[ω_, L_, Q_, P_]] := With[{q = e^(-γ) β u_k + γ c_k}, CF[
    𝔼[ω, γ c_k + (L /. c_j → 0), ω e^(-γ) β u_k + (Q /. u_i → 0), e^(-q) DP_{c_j→D_γ, u_i→D_β}[P][e^q]] /. {γ → ∂_{c_j} L, β → ω^(-1) ∂_{u_i} Q}]];
N_{w_i_ c_j_→k_}[𝔼[ω_, L_, Q_, P_]] := With[{q = e^γ α w_k + γ c_k}, CF[
    𝔼[ω, γ c_k + (L /. c_j → 0), ω e^γ α w_k + (Q /. w_i → 0), e^(-q) DP_{c_j→D_γ, w_i→D_α}[P][e^q]] /. {γ → ∂_{c_j} L, α → ω^(-1) ∂_{w_i} Q}]];
```

```
N_{w_i_ u_j_→k_}[𝔼[ω_, L_, Q_, P_]] := With[{q = (1 - t_k) μ^(-1) α β + μ^(-1) β u_k + μ^(-1) δ u_k w_k + μ^(-1) α w_k}, CF[
    𝔼[μ ω, L, μ ω q + μ (Q /. w_i | u_j → 0), μ^4 e^(-q) DP_{w_i→D_α, u_j→D_β}[P][e^q] + ω^4 Λ[k]] /. μ → 1 + (t_k - 1) δ /.
     {α → ω^(-1) (∂_{w_i} Q /. u_j → 0), β → ω^(-1) (∂_{u_j} Q /. w_i → 0), δ → ω^(-1) ∂_{w_i, u_j} Q}]];
```

```
m_{i_,j_→k_}[Z_] := Module[{x, y, z},
   Z // N_{w_i c_j→x} // N_{w_x u_j→y} // ReplaceAll[{c_{x|y} → c_x, w_j → w_y}] // N_{u_i c_x→x} // ReplaceAll[z_{-i|j|x|y} → z_k] // CF];
```

```
R^+_{i_,j_} := 𝔼[1, b_i c_j, u_i w_j, -c_i (t_i - 1)^2/2 - c_i^2 (t_i - 1)^2/2 + c_i c_j (t_j^2 - t_i - 2)/2 - c_j u_i w_i/2 + c_i (1 - t_i) u_i w_i -
    u_i^2 w_i^2/2 + u_i w_j + c_j t_i u_i w_j/2 + c_i (t_i - 2) t_i u_i w_j + c_i (1 + t_j) u_j w_j/2 + (t_i - 1) u_i^2 w_i w_j - (t_i - 2) t_i u_i^2 w_j^2/2];
R^-_{i_,j_} := 𝔼[1, -b_i c_j, -t_i^{-1} u_i w_j, c_i (t_i - 1)^2/2 + c_i^2 (t_i - 1)^2/2 + c_i c_j (2 + t_i - t_j^2)/2 + c_j u_i w_i/2 +
    c_i (t_i - 1) u_i w_i + u_i^2 w_i^2/2 + (1 - t_i^{-1}) u_i w_j/2 + c_i (2 t_i - 5 + 3 t_i^{-1}) u_i w_j/2 + c_j (t_i^{-1} + 1 - t_i^{-1} t_j^2) u_i w_j/2 -
    c_i (t_j + 1) u_j w_j/2 + (2 - 3 t_i^{-1}) u_i^2 w_i w_j/2 + (1 + 2 t_i^{-2} - 3 t_i^{-1}) u_i^2 w_j^2/2 - t_i^{-1} (1 + t_j) u_i u_j w_j^2/2];
ur_{i_} := 𝔼[t_i^{-1/4}, 0, 0, c_i t_i/4 + u_i w_i/8];
nr_{i_} := 𝔼[t_i^{1/4}, 0, 0, -c_i t_i^3/4 - t_i^2 u_i w_i/8];
ul_{i_} := 𝔼[t_i^{1/4}, 0, 0, c_i t_i (4 + t_i)/4 - t_i^2 u_i w_i/8];
nl_{i_} := 𝔼[t_i^{-1/4}, 0, 0, -c_i (1 + 4 t_i^{-1})/4 + u_i w_i/8];
```

```
rot[_, 0] = 𝔼[1, 0, 0, 0];
rot[i_, 1] := Module[{y}, nl_i ur_y // m_{i,y→i}];
rot[i_, n_Integer] /; n > 1 := Module[{y}, rot[i, n - 1] rot[y, 1] // m_{i,y→i}];
rot[i_, -1] := Module[{y}, nr_i ul_y // m_{i,y→i}];
rot[i_, n_Integer] /; n < -1 := Module[{y}, rot[i, n + 1] rot[y, -1] // m_{i,y→i}];
```

```
rot[i, 1]
```

$$\mathbb{E}\left[\frac{1}{\sqrt{t_i}}, 0, 0, \frac{c_i}{4} - \frac{c_i}{t_i^2} - \frac{c_i}{4 t_i} + \frac{u_i w_i}{4 t_i}\right]$$

```
4 t_i^2 (c_i/4 - c_i/t_i^2 - c_i/(4 t_i)) // Simplify
```

$$c_i \left(-4 - t_i + t_i^2\right)$$

```
{rot[i, 2], rot[i, -2]}
```

$$\left\{\mathbb{E}\left[\frac{1}{t_i}, 0, 0, -\frac{2 c_i}{t_i^4} - \frac{c_i}{2 t_i^3} + \frac{c_i}{2 t_i^2} + \frac{u_i w_i}{2 t_i^3}\right], \mathbb{E}\left[t_i, 0, 0, 2 c_i t_i^4 + \frac{1}{2} c_i t_i^5 - \frac{1}{2} c_i t_i^6 - \frac{1}{2} t_i^5 u_i w_i\right]\right\}$$

```
R^+_{1,2} R^-_{4,3} // m_{1,2→1} // m_{1,3→1} // m_{1,4→1}
```

$$\mathbb{E}\left[\frac{1}{t_1}, 0, 0, -\frac{2 c_1}{t_1^4} - \frac{c_1}{2 t_1^3} + \frac{c_1}{2 t_1^2} + \frac{2 u_1 w_1}{t_1^4} + \frac{u_1 w_1}{2 t_1^3}\right]$$

```
rot[i, 3] rot[j, -3] // m_{i,j→i}
```

$$\mathbb{E}[1, 0, 0, 0]$$

```
RVK[Knot[8, 17]]
```

```
RVK[{Xp[1, 6], Xp[7, 14], Xm[3, 8], Xm[13, 2], Xm[5, 12], Xm[9, 4], Xp[11, 16], Xp[15, 10]},
 {0, 0, 0, 0, 0, -1, 0, 0, 0, 0, 0, 0, -1, 0, 0, 0}]
```

```
Clear[k, l]
```

```
Z[K_] := Z[RVK@K];
Z[rvk_RVK] := Z[rvk] = Module[{todo, n, rots, ℨ, done, st, x, ℨ1, i, j, k, k1, k2, k3},
   {todo, rots} = List @@ rvk;
   AppendTo[rots, 0];
   n = Length[todo];
   ℨ = 𝔼[1, 0, 0, 0];
   done = {0};
   st = Range[0, 2 n + 1];
   While[todo =!= {},
    {x} = MaximalBy[todo, Length[done ⋂ {#[[1]], #[[2]], #[[1]] - 1, #[[2]] - 1}] &, 1];
    Z$todo = todo; Z$x = x;
    {i, j} = List @@ x;
    ℨ1 = Switch[Head[x],
       Xp, m_{j,k→j}[R⁺_{i,j} (R⁻_{k3,k} nr_{k1} ul_{k2} // m_{k,k1→k} // m_{k,k2→k} // m_{k,k3→k})],
       Xm, m_{j,k→j}[R⁻_{i,j} (R⁺_{k,k3} nr_{k1} ul_{k2} // m_{k,k1→k} // m_{k,k2→k} // m_{k,k3→k})]
     ];
    ℨ1 = rot[k, rots[[i]]] ℨ1 // m_{k,i→i}; rots[[i]] = 0;
    ℨ1 = ℨ1 rot[k, rots[[i + 1]]] // m_{i,k→i}; rots[[i + 1]] = 0;
    ℨ1 = rot[k, rots[[j]]] ℨ1 // m_{k,j→j}; rots[[j]] = 0;
    ℨ1 = ℨ1 rot[k, rots[[j + 1]]] // m_{j,k→j}; rots[[j + 1]] = 0;
    ℨ *= ℨ1;
    If[MemberQ[done, i], ℨ = ℨ // m_{i,i+1→i}; st = st /. st[[i + 2]] → st[[i + 1]]];
    If[MemberQ[done, i - 1], ℨ = ℨ // m_{st[[i]],i→st[[i]]}; st = st /. st[[i + 1]] → st[[i]]];
    If[MemberQ[done, j], ℨ = ℨ // m_{j,j+1→j}; st = st /. st[[j + 2]] → st[[j + 1]]];
    If[MemberQ[done, j - 1], ℨ = ℨ // m_{st[[j]],j→st[[j]]}; st = st /. st[[j + 1]] → st[[j]]];
    done = done ⋃ {i - 1, i, j - 1, j};
    todo = DeleteCases[todo, x]
   ];
   ℨ /. {u_0 → u, c_0 → c, w_0 → w}
  ]
```

```
Z[Knot[3, 1]]
```

$$\mathbb{E}\Big[-1+\frac{1}{t_0}+t_0,\ 0,\ 0,$$

$$-\frac{9472}{\left(1-2t_0+2t_0^2\right)^4}-\frac{1991\,c}{2\left(1-2t_0+2t_0^2\right)^4}-\frac{10\,058\,u\,w}{\left(1-2t_0+2t_0^2\right)^4}-\frac{1862\,u^2w^2}{\left(1-2t_0+2t_0^2\right)^4}-\frac{4}{t_0^4\left(1-2t_0+2t_0^2\right)^4}-$$

$$\frac{2\,c}{t_0^4\left(1-2t_0+2t_0^2\right)^4}-\frac{4\,u\,w}{t_0^4\left(1-2t_0+2t_0^2\right)^4}-\frac{3\,u^2w^2}{2\,t_0^4\left(1-2t_0+2t_0^2\right)^4}+\frac{63}{t_0^3\left(1-2t_0+2t_0^2\right)^4}+\frac{43\,c}{2\,t_0^3\left(1-2t_0+2t_0^2\right)^4}+$$

$$\frac{137\,u\,w}{2\,t_0^3\left(1-2t_0+2t_0^2\right)^4}+\frac{39\,u^2w^2}{2\,t_0^3\left(1-2t_0+2t_0^2\right)^4}-\frac{493}{t_0^2\left(1-2t_0+2t_0^2\right)^4}-\frac{116\,c}{t_0^2\left(1-2t_0+2t_0^2\right)^4}-\frac{1087\,u\,w}{2\,t_0^2\left(1-2t_0+2t_0^2\right)^4}-$$

$$\frac{259\,u^2w^2}{2\,t_0^2\left(1-2t_0+2t_0^2\right)^4}+\frac{2527}{t_0\left(1-2t_0+2t_0^2\right)^4}+\frac{404\,c}{t_0\left(1-2t_0+2t_0^2\right)^4}+\frac{5505\,u\,w}{2\,t_0\left(1-2t_0+2t_0^2\right)^4}+\frac{1143\,u^2w^2}{2\,t_0\left(1-2t_0+2t_0^2\right)^4}+$$

$$\frac{27\,516\,t_0}{\left(1-2t_0+2t_0^2\right)^4}+\frac{1790\,c\,t_0}{\left(1-2t_0+2t_0^2\right)^4}+\frac{28\,262\,u\,w\,t_0}{\left(1-2t_0+2t_0^2\right)^4}+\frac{4731\,u^2w^2\,t_0}{\left(1-2t_0+2t_0^2\right)^4}-\frac{64\,147\,t_0^2}{\left(1-2t_0+2t_0^2\right)^4}-\frac{2312\,c\,t_0^2}{\left(1-2t_0+2t_0^2\right)^4}-$$

$$\frac{63\,376\,u\,w\,t_0^2}{\left(1-2t_0+2t_0^2\right)^4}-\frac{19\,363\,u^2w^2\,t_0^2}{2\left(1-2t_0+2t_0^2\right)^4}+\frac{122\,708\,t_0^3}{\left(1-2t_0+2t_0^2\right)^4}+\frac{3821\,c\,t_0^3}{2\left(1-2t_0+2t_0^2\right)^4}+\frac{232\,131\,u\,w\,t_0^3}{2\left(1-2t_0+2t_0^2\right)^4}+$$

$$\frac{32\,545\,u^2w^2\,t_0^3}{2\left(1-2t_0+2t_0^2\right)^4}-\frac{195\,400\,t_0^4}{\left(1-2t_0+2t_0^2\right)^4}-\frac{370\,c\,t_0^4}{\left(1-2t_0+2t_0^2\right)^4}-\frac{352\,201\,u\,w\,t_0^4}{2\left(1-2t_0+2t_0^2\right)^4}-\frac{22\,723\,u^2w^2\,t_0^4}{\left(1-2t_0+2t_0^2\right)^4}+\frac{261\,338\,t_0^5}{\left(1-2t_0+2t_0^2\right)^4}-$$

$$\frac{1638\,c\,t_0^5}{\left(1-2t_0+2t_0^2\right)^4}+\frac{446\,411\,u\,w\,t_0^5}{2\left(1-2t_0+2t_0^2\right)^4}+\frac{26\,506\,u^2w^2\,t_0^5}{\left(1-2t_0+2t_0^2\right)^4}-\frac{294\,932\,t_0^6}{\left(1-2t_0+2t_0^2\right)^4}+\frac{5839\,c\,t_0^6}{2\left(1-2t_0+2t_0^2\right)^4}-$$

$$\frac{237\,172\,u\,w\,t_0^6}{\left(1-2t_0+2t_0^2\right)^4}-\frac{51\,681\,u^2w^2\,t_0^6}{2\left(1-2t_0+2t_0^2\right)^4}+\frac{281\,104\,t_0^7}{\left(1-2t_0+2t_0^2\right)^4}-\frac{2760\,c\,t_0^7}{\left(1-2t_0+2t_0^2\right)^4}+\frac{211\,108\,u\,w\,t_0^7}{\left(1-2t_0+2t_0^2\right)^4}+$$

$$\frac{41\,927\,u^2w^2\,t_0^7}{2\left(1-2t_0+2t_0^2\right)^4}-\frac{225\,631\,t_0^8}{\left(1-2t_0+2t_0^2\right)^4}+\frac{1528\,c\,t_0^8}{\left(1-2t_0+2t_0^2\right)^4}-\frac{156\,574\,u\,w\,t_0^8}{\left(1-2t_0+2t_0^2\right)^4}-\frac{28\,031\,u^2w^2\,t_0^8}{2\left(1-2t_0+2t_0^2\right)^4}+$$

$$\frac{151\,441\,t_0^9}{\left(1-2t_0+2t_0^2\right)^4}-\frac{232\,c\,t_0^9}{\left(1-2t_0+2t_0^2\right)^4}+\frac{95\,722\,u\,w\,t_0^9}{\left(1-2t_0+2t_0^2\right)^4}+\frac{15\,181\,u^2w^2\,t_0^9}{2\left(1-2t_0+2t_0^2\right)^4}-\frac{83\,943\,t_0^{10}}{\left(1-2t_0+2t_0^2\right)^4}-\frac{420\,c\,t_0^{10}}{\left(1-2t_0+2t_0^2\right)^4}-$$

$$\frac{47\,346\,u\,w\,t_0^{10}}{\left(1-2t_0+2t_0^2\right)^4}-\frac{3234\,u^2w^2\,t_0^{10}}{\left(1-2t_0+2t_0^2\right)^4}+\frac{37\,657\,t_0^{11}}{\left(1-2t_0+2t_0^2\right)^4}+\frac{440\,c\,t_0^{11}}{\left(1-2t_0+2t_0^2\right)^4}+\frac{18\,368\,u\,w\,t_0^{11}}{\left(1-2t_0+2t_0^2\right)^4}+\frac{1029\,u^2w^2\,t_0^{11}}{\left(1-2t_0+2t_0^2\right)^4}-$$

$$\frac{13\,232\,t_0^{12}}{\left(1-2t_0+2t_0^2\right)^4}-\frac{224\,c\,t_0^{12}}{\left(1-2t_0+2t_0^2\right)^4}-\frac{5294\,u\,w\,t_0^{12}}{\left(1-2t_0+2t_0^2\right)^4}-\frac{441\,u^2w^2\,t_0^{12}}{2\left(1-2t_0+2t_0^2\right)^4}+\frac{3444\,t_0^{13}}{\left(1-2t_0+2t_0^2\right)^4}+\frac{64\,c\,t_0^{13}}{\left(1-2t_0+2t_0^2\right)^4}+$$

$$\frac{1020\,u\,w\,t_0^{13}}{\left(1-2t_0+2t_0^2\right)^4}+\frac{49\,u^2w^2\,t_0^{13}}{2\left(1-2t_0+2t_0^2\right)^4}-\frac{596\,t_0^{14}}{\left(1-2t_0+2t_0^2\right)^4}-\frac{8\,c\,t_0^{14}}{\left(1-2t_0+2t_0^2\right)^4}-\frac{100\,u\,w\,t_0^{14}}{\left(1-2t_0+2t_0^2\right)^4}+\frac{52\,t_0^{15}}{\left(1-2t_0+2t_0^2\right)^4}\Big]$$

```
t_ = t; Z[Knot[3, 1]]
```

$$\mathbb{E}\Big[-1+\frac{1}{t}+t,\,0,\,0,\,-\frac{9472}{(1-2t+2t^2)^4}-\frac{1991\,c}{2(1-2t+2t^2)^4}-\frac{4}{t^4(1-2t+2t^2)^4}-\frac{2\,c}{t^4(1-2t+2t^2)^4}+\frac{63}{t^3(1-2t+2t^2)^4}+$$
$$\frac{43\,c}{2t^3(1-2t+2t^2)^4}-\frac{493}{t^2(1-2t+2t^2)^4}-\frac{116\,c}{t^2(1-2t+2t^2)^4}+\frac{2527}{t(1-2t+2t^2)^4}+\frac{404\,c}{t(1-2t+2t^2)^4}+$$
$$\frac{27\,516\,t}{(1-2t+2t^2)^4}+\frac{1790\,c\,t}{(1-2t+2t^2)^4}-\frac{64\,147\,t^2}{(1-2t+2t^2)^4}-\frac{2312\,c\,t^2}{(1-2t+2t^2)^4}+\frac{122\,708\,t^3}{(1-2t+2t^2)^4}+\frac{3821\,c\,t^3}{2(1-2t+2t^2)^4}-$$
$$\frac{195\,400\,t^4}{(1-2t+2t^2)^4}-\frac{370\,c\,t^4}{(1-2t+2t^2)^4}+\frac{261\,338\,t^5}{(1-2t+2t^2)^4}-\frac{1638\,c\,t^5}{(1-2t+2t^2)^4}-\frac{294\,932\,t^6}{(1-2t+2t^2)^4}+\frac{5839\,c\,t^6}{2(1-2t+2t^2)^4}+$$
$$\frac{281\,104\,t^7}{(1-2t+2t^2)^4}-\frac{2760\,c\,t^7}{(1-2t+2t^2)^4}-\frac{225\,631\,t^8}{(1-2t+2t^2)^4}+\frac{1528\,c\,t^8}{(1-2t+2t^2)^4}+\frac{151\,441\,t^9}{(1-2t+2t^2)^4}-\frac{232\,c\,t^9}{(1-2t+2t^2)^4}-$$
$$\frac{83\,943\,t^{10}}{(1-2t+2t^2)^4}-\frac{420\,c\,t^{10}}{(1-2t+2t^2)^4}+\frac{37\,657\,t^{11}}{(1-2t+2t^2)^4}+\frac{440\,c\,t^{11}}{(1-2t+2t^2)^4}-\frac{13\,232\,t^{12}}{(1-2t+2t^2)^4}-\frac{224\,c\,t^{12}}{(1-2t+2t^2)^4}+$$
$$\frac{3444\,t^{13}}{(1-2t+2t^2)^4}+\frac{64\,c\,t^{13}}{(1-2t+2t^2)^4}-\frac{596\,t^{14}}{(1-2t+2t^2)^4}-\frac{8\,c\,t^{14}}{(1-2t+2t^2)^4}+\frac{52\,t^{15}}{(1-2t+2t^2)^4}-\frac{10\,058\,u\,w}{(1-2t+2t^2)^4}-$$
$$\frac{4\,u\,w}{t^4(1-2t+2t^2)^4}+\frac{137\,u\,w}{2t^3(1-2t+2t^2)^4}-\frac{1087\,u\,w}{2t^2(1-2t+2t^2)^4}+\frac{5505\,u\,w}{2t(1-2t+2t^2)^4}+\frac{28\,262\,t\,u\,w}{(1-2t+2t^2)^4}-$$
$$\frac{63\,376\,t^2\,u\,w}{(1-2t+2t^2)^4}+\frac{232\,131\,t^3\,u\,w}{2(1-2t+2t^2)^4}-\frac{352\,201\,t^4\,u\,w}{2(1-2t+2t^2)^4}+\frac{446\,411\,t^5\,u\,w}{2(1-2t+2t^2)^4}-\frac{237\,172\,t^6\,u\,w}{(1-2t+2t^2)^4}+$$
$$\frac{211\,108\,t^7\,u\,w}{(1-2t+2t^2)^4}-\frac{156\,574\,t^8\,u\,w}{(1-2t+2t^2)^4}+\frac{95\,722\,t^9\,u\,w}{(1-2t+2t^2)^4}-\frac{47\,346\,t^{10}\,u\,w}{(1-2t+2t^2)^4}+\frac{18\,368\,t^{11}\,u\,w}{(1-2t+2t^2)^4}-\frac{5294\,t^{12}\,u\,w}{(1-2t+2t^2)^4}+$$
$$\frac{1020\,t^{13}\,u\,w}{(1-2t+2t^2)^4}-\frac{100\,t^{14}\,u\,w}{(1-2t+2t^2)^4}-\frac{1862\,u^2\,w^2}{(1-2t+2t^2)^4}-\frac{3\,u^2\,w^2}{2t^4(1-2t+2t^2)^4}+\frac{39\,u^2\,w^2}{2t^3(1-2t+2t^2)^4}-$$
$$\frac{259\,u^2\,w^2}{2t^2(1-2t+2t^2)^4}+\frac{1143\,u^2\,w^2}{2t(1-2t+2t^2)^4}+\frac{4731\,t\,u^2\,w^2}{(1-2t+2t^2)^4}-\frac{19\,363\,t^2\,u^2\,w^2}{2(1-2t+2t^2)^4}+\frac{32\,545\,t^3\,u^2\,w^2}{2(1-2t+2t^2)^4}-$$
$$\frac{22\,723\,t^4\,u^2\,w^2}{(1-2t+2t^2)^4}+\frac{26\,506\,t^5\,u^2\,w^2}{(1-2t+2t^2)^4}-\frac{51\,681\,t^6\,u^2\,w^2}{2(1-2t+2t^2)^4}+\frac{41\,927\,t^7\,u^2\,w^2}{2(1-2t+2t^2)^4}-\frac{28\,031\,t^8\,u^2\,w^2}{2(1-2t+2t^2)^4}+$$
$$\frac{15\,181\,t^9\,u^2\,w^2}{2(1-2t+2t^2)^4}-\frac{3234\,t^{10}\,u^2\,w^2}{(1-2t+2t^2)^4}+\frac{1029\,t^{11}\,u^2\,w^2}{(1-2t+2t^2)^4}-\frac{441\,t^{12}\,u^2\,w^2}{2(1-2t+2t^2)^4}+\frac{49\,t^{13}\,u^2\,w^2}{2(1-2t+2t^2)^4}\Big]$$

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Knot[3, 1] // Mirror // PD
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PD[X[4, 2, 5, 1], X[6, 4, 1, 3], X[2, 6, 3, 5]]
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Z[Knot[3, 1] // Mirror]
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$$\mathbb{E}\Big[-1+\frac{1}{t}+t,\,0,\,0,$$
$$-162+\frac{9\,c}{2}-\frac{5}{t^4}-\frac{2\,c}{t^4}+\frac{26}{t^3}+\frac{11\,c}{2\,t^3}-\frac{71}{t^2}-\frac{8\,c}{t^2}+\frac{127}{t}+\frac{4\,c}{t}+152\,t-10\,c\,t-105\,t^2+8\,c\,t^2+52\,t^3-\frac{3\,c\,t^3}{2}-17\,t^4-2\,c\,t^4+$$
$$3\,t^5+2\,c\,t^5-\frac{c\,t^6}{2}+48\,u\,w-\frac{2\,u\,w}{t^5}+\frac{12\,u\,w}{t^4}-\frac{59\,u\,w}{2\,t^3}+\frac{101\,u\,w}{2\,t^2}-\frac{115\,u\,w}{2\,t}-26\,t\,u\,w+10\,t^2\,u\,w-\frac{5}{2}t^3\,u\,w+\frac{3}{2}t^4\,u\,w-$$
$$\frac{1}{2}t^5\,u\,w-\frac{81\,u^2\,w^2}{2}-\frac{3\,u^2\,w^2}{2\,t^6}+\frac{15\,u^2\,w^2}{2\,t^5}-\frac{21\,u^2\,w^2}{t^4}+\frac{39\,u^2\,w^2}{t^3}-\frac{53\,u^2\,w^2}{t^2}+\frac{54\,u^2\,w^2}{t}+\frac{43}{2}t\,u^2\,w^2-\frac{15}{2}t^2\,u^2\,w^2+\frac{3}{2}t^3\,u^2\,w^2\Big]$$

Z[Knot[8, 17]]

$$\mathbb{E}\Big[11-\frac{1}{t^3}+\frac{4}{t^2}-\frac{8}{t}-8\,t+4\,t^2-t^3,\,0,\,0,\,-\frac{1\,027\,410\,208\,770}{\left(1-4\,t+6\,t^2-5\,t^3+t^4\right)^4\left(1-3\,t+4\,t^2-4\,t^3+t^4\right)^4}-\frac{384\,948\,130\,277\,c}{2\left(1-4\,t+6\,t^2-5\,t^3+t^4\right)^4\left(1-3\,t+4\,t^2-4\,t^3+t^4\right)^4}-\frac{12}{t^{12}\left(1-4\,t+6\,t^2-5\,t^3+t^4\right)^4\left(1-3\,t+4\,t^2-4\,t^3+t^4\right)^4}-\frac{6\,c}{t^{12}\left(1-4\,t+6\,t^2-5\,t^3+t^4\right)^4\left(1-3\,t+4\,t^2-4\,t^3+t^4\right)^4}+\cdots 346\cdots+\frac{2726\,t^{45}\,u^2\,w^2}{\left(1-4\,t+6\,t^2-5\,t^3+t^4\right)^4\left(1-3\,t+4\,t^2-4\,t^3+t^4\right)^4}-\frac{106\,t^{46}\,u^2\,w^2}{\left(1-4\,t+6\,t^2-5\,t^3+t^4\right)^4\left(1-3\,t+4\,t^2-4\,t^3+t^4\right)^4}+\frac{2\,t^{47}\,u^2\,w^2}{\left(1-4\,t+6\,t^2-5\,t^3+t^4\right)^4\left(1-3\,t+4\,t^2-4\,t^3+t^4\right)^4}\Big]$$

large output | **show less** | **show more** | **show all** | **set size limit...**

Z[Knot[10, 165]]

$$\mathbb{E}\Big[-15-\frac{2}{t^2}+\frac{10}{t}+10\,t-2\,t^2,\,0,\,0,$$
$$-\frac{770\,428\,995\,544\,659}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{3\,894\,373\,704\,208\,c}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{11\,968}{t^{12}\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{569\,792}{t^{11}\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{13\,291\,200}{t^{10}\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{202\,597\,376}{t^9\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{2\,269\,309\,200}{t^8\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{82\,944\,c}{t^8\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{19\,904\,875\,824}{t^7\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{3\,421\,440\,c}{t^7\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{142\,239\,617\,008}{t^6\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{66\,994\,560\,c}{t^6\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{850\,617\,650\,768}{t^5\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{829\,795\,968\,c}{t^5\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{4\,340\,084\,002\,484}{t^4\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{7\,310\,132\,928\,c}{t^4\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{19\,170\,624\,320\,996}{t^3\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{48\,830\,048\,640\,c}{t^3\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{74\,142\,878\,669\,044}{t^2\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{257\,452\,365\,792\,c}{t^2\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{253\,345\,824\,110\,744}{t\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{1\,101\,051\,265\,824\,c}{t\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{2\,097\,521\,354\,712\,533\,t}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{11\,551\,800\,381\,632\,c\,t}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{5\,137\,522\,717\,063\,465\,t^2}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{29\,019\,970\,952\,568\,c\,t^2}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{11\,366\,409\,122\,733\,621\,t^3}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{62\,121\,500\,921\,768\,c\,t^3}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{22\,791\,052\,745\,277\,239\,t^4}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-\frac{113\,576\,075\,761\,300\,c\,t^4}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{41\,531\,976\,346\,962\,822\,t^5}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}+\frac{176\,890\,502\,100\,344\,c\,t^5}{\left(3-3\,t+t^2\right)^4\left(2-10\,t+13\,t^2-8\,t^3+2\,t^4\right)^4}-$$

$$\frac{68\,941\,719\,322\,680\,580\,t^6}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{232\,240\,745\,748\,554\,c\,t^6}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{104\,447\,400\,686\,915\,001\,t^7}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{250\,247\,917\,911\,702\,c\,t^7}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{144\,649\,665\,234\,024\,238\,t^8}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{205\,864\,211\,175\,375\,c\,t^8}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{183\,357\,677\,272\,658\,299\,t^9}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{95\,994\,974\,254\,103\,c\,t^9}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{212\,950\,965\,672\,494\,826\,t^{10}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{51\,932\,495\,440\,619\,c\,t^{10}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{226\,767\,501\,951\,455\,324\,t^{11}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{189\,617\,394\,868\,283\,c\,t^{11}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{221\,519\,141\,794\,031\,662\,t^{12}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{271\,870\,685\,272\,647\,c\,t^{12}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{198\,547\,819\,653\,812\,424\,t^{13}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{279\,372\,764\,299\,439\,c\,t^{13}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{163\,274\,571\,255\,670\,753\,t^{14}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{225\,232\,268\,259\,325\,c\,t^{14}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{123\,146\,946\,122\,798\,393\,t^{15}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{142\,881\,318\,996\,253\,c\,t^{15}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{85\,133\,402\,330\,542\,507\,t^{16}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{65\,937\,161\,746\,833\,c\,t^{16}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{53\,891\,900\,913\,261\,366\,t^{17}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{13\,695\,563\,339\,473\,c\,t^{17}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{31\,196\,947\,337\,280\,080\,t^{18}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{11\,376\,876\,535\,061\,c\,t^{18}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{16\,485\,701\,019\,998\,267\,t^{19}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{17\,203\,294\,283\,721\,c\,t^{19}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{7\,935\,083\,721\,183\,165\,t^{20}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{13\,837\,351\,778\,910\,c\,t^{20}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{3\,469\,420\,584\,463\,092\,t^{21}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{8\,425\,145\,665\,326\,c\,t^{21}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{1\,373\,308\,476\,716\,958\,t^{22}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{4\,206\,360\,488\,016\,c\,t^{22}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{490\,128\,947\,547\,342\,t^{23}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{1\,772\,794\,429\,180\,c\,t^{23}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{156\,935\,964\,087\,892\,t^{24}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{637\,919\,881\,832\,c\,t^{24}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{44\,808\,954\,317\,152\,t^{25}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{196\,532\,524\,904\,c\,t^{25}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{11\,323\,787\,299\,448\,t^{26}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{51\,700\,099\,744\,c\,t^{26}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$

$$\frac{2\,509\,397\,780\,904\,t^{27}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{11\,529\,400\,816\,c\,t^{27}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{481\,956\,467\,440\,t^{28}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{2\,153\,900\,064\,c\,t^{28}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{79\,021\,609\,280\,t^{29}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{331\,199\,264\,c\,t^{29}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{10\,841\,315\,232\,t^{30}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{40\,849\,408\,c\,t^{30}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{1\,210\,624\,288\,t^{31}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{3\,886\,912\,c\,t^{31}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{105\,682\,112\,t^{32}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{267\,904\,c\,t^{32}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{6\,764\,032\,t^{33}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{11\,904\,c\,t^{33}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{282\,240\,t^{34}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{256\,c\,t^{34}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{5760\,t^{35}}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{252\,196\,176\,014\,412\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{1280\,u\,w}{t^{12}\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{52\,224\,u\,w}{t^{11}\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{1\,080\,704\,u\,w}{t^{10}\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{15\,798\,656\,u\,w}{t^9\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{188\,207\,424\,u\,w}{t^8\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{1\,920\,394\,496\,u\,w}{t^7\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{16\,784\,811\,808\,u\,w}{t^6\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{124\,378\,930\,464\,u\,w}{t^5\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{778\,789\,932\,688\,u\,w}{t^4\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{4\,137\,600\,539\,328\,u\,w}{t^3\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{18\,804\,018\,380\,520\,u\,w}{t^2\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{73\,781\,528\,225\,032\,u\,w}{t\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{757\,084\,299\,901\,328\,t\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{2\,010\,187\,499\,394\,182\,t^2\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{4\,749\,503\,258\,625\,622\,t^3\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{10\,037\,235\,903\,908\,038\,t^4\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{19\,055\,508\,652\,181\,136\,t^5\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{32\,617\,517\,351\,079\,606\,t^6\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{50\,492\,364\,934\,278\,096\,t^7\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{70\,865\,504\,176\,803\,219\,t^8\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{90\,357\,249\,570\,305\,572\,t^9\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{104\,835\,505\,653\,301\,765\,t^{10}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{110\,814\,532\,187\,828\,926\,t^{11}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{106\,804\,592\,278\,227\,579\,t^{12}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$

$$\frac{93\,905\,515\,917\,786\,318\,t^{13}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{75\,326\,107\,317\,209\,145\,t^{14}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{55\,110\,975\,743\,945\,920\,t^{15}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{36\,752\,516\,532\,610\,901\,t^{16}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{22\,316\,892\,153\,218\,966\,t^{17}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{12\,320\,468\,253\,758\,347\,t^{18}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{6\,171\,689\,676\,038\,460\,t^{19}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{2\,798\,081\,148\,946\,222\,t^{20}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{1\,144\,496\,072\,312\,348\,t^{21}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{420\,685\,395\,237\,044\,t^{22}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{138\,288\,893\,239\,160\,t^{23}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{40\,412\,586\,493\,016\,t^{24}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{10\,421\,885\,476\,832\,t^{25}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{2\,350\,083\,984\,560\,t^{26}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{458\,007\,634\,944\,t^{27}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{75\,994\,683\,552\,t^{28}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{10\,522\,940\,352\,t^{29}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{1\,182\,893\,760\,t^{30}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{103\,679\,872\,t^{31}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{6\,645\,632\,t^{32}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{276\,992\,t^{33}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{5632\,t^{34}\,u\,w}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{35\,104\,368\,238\,152\,u^2\,w^2}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{128\,u^2\,w^2}{t^{12}\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{5504\,u^2\,w^2}{t^{11}\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{132\,480\,u^2\,w^2}{t^{10}\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{2\,356\,608\,u^2\,w^2}{t^9\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{32\,885\,248\,u^2\,w^2}{t^8\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{363\,355\,392\,u^2\,w^2}{t^7\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{3\,210\,635\,648\,u^2\,w^2}{t^6\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{23\,053\,972\,864\,u^2\,w^2}{t^5\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{136\,979\,119\,952\,u^2\,w^2}{t^4\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{685\,161\,363\,440\,u^2\,w^2}{t^3\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-\frac{2\,929\,140\,926\,160\,u^2\,w^2}{t^2\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+$$
$$\frac{10\,840\,830\,319\,952\,u^2\,w^2}{t\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{100\,318\,595\,373\,944\,t\,u^2\,w^2}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{254\,764\,185\,112\,720\,t^2\,u^2\,w^2}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{578\,151\,257\,566\,576\,t^3\,u^2\,w^2}{(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{2\,355\,262\,641\,322\,005\,t^4\,u^2\,w^2}{2\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{4\,321\,141\,628\,365\,703\,t^5\,u^2\,w^2}{2\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$
$$\frac{7\,160\,838\,477\,531\,067\,t^6\,u^2\,w^2}{2\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}+\frac{10\,742\,389\,109\,295\,155\,t^7\,u^2\,w^2}{2\,(3-3t+t^2)^4\,(2-10t+13t^2-8t^3+2t^4)^4}-$$

$$\frac{14\,614\,048\,898\,102\,735\,t^8\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{18\,053\,462\,324\,100\,191\,t^9\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{20\,272\,361\,940\,813\,731\,t^{10}\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{20\,705\,821\,342\,690\,193\,t^{11}\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{19\,243\,141\,131\,458\,827\,t^{12}\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{16\,272\,924\,911\,650\,727\,t^{13}\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{6\,258\,877\,731\,476\,392\,t^{14}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{4\,376\,617\,874\,678\,531\,t^{15}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{5\,558\,201\,629\,423\,667\,t^{16}\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{3\,200\,223\,763\,120\,813\,t^{17}\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{1\,667\,460\,903\,697\,903\,t^{18}\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{784\,281\,108\,815\,273\,t^{19}\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{331\,943\,710\,290\,723\,t^{20}\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{125\,934\,109\,829\,521\,t^{21}\,u^2\,w^2}{2\,(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{21\,310\,548\,112\,284\,t^{22}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{6\,396\,007\,457\,566\,t^{23}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{1\,689\,952\,350\,844\,t^{24}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{389\,506\,163\,164\,t^{25}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{77\,408\,397\,064\,t^{26}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{13\,067\,052\,568\,t^{27}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{1\,836\,608\,056\,t^{28}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{209\,086\,088\,t^{29}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{18\,518\,080\,t^{30}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{1\,196\,704\,t^{31}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}-$$
$$\frac{50\,176\,t^{32}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}+\frac{1024\,t^{33}\,u^2\,w^2}{(3-3\,t+t^2)^4\,(2-10\,t+13\,t^2-8\,t^3+2\,t^4)^4}\Big]$$

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Alexander[Knot[10, 165]][t]
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$$-15-\frac{2}{t^2}+\frac{10}{t}+10\,t-2\,t^2$$

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t_ = t; Table[Echo[K → Timing@Z[K]], {K, AllKnots[{3, 10}]}]
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» Knot[3, 1] →

$$\left\{0.,\ \mathbb{E}\left[-1+\frac{1}{t}+t,\ 0,\ 0,\ -\frac{9472}{(1-2t+2t^2)^4}-\frac{1991\,c}{2(1-2t+2t^2)^4}-\frac{4}{t^4(1-2t+2t^2)^4}-\frac{2\,c}{t^4(1-2t+2t^2)^4}+\frac{63}{t^3(1-2t+2t^2)^4}+\right.\right.$$
$$\frac{43\,c}{2t^3(1-2t+2t^2)^4}-\frac{493}{t^2(1-2t+2t^2)^4}-\frac{116\,c}{t^2(1-2t+2t^2)^4}+\frac{2527}{t(1-2t+2t^2)^4}+\frac{404\,c}{t(1-2t+2t^2)^4}+\frac{27\,516\,t}{(1-2t+2t^2)^4}+$$
$$\frac{1790\,c\,t}{(1-2t+2t^2)^4}-\frac{64\,147\,t^2}{(1-2t+2t^2)^4}-\frac{2312\,c\,t^2}{(1-2t+2t^2)^4}+\frac{122\,708\,t^3}{(1-2t+2t^2)^4}+\frac{3821\,c\,t^3}{2(1-2t+2t^2)^4}-\frac{195\,400\,t^4}{(1-2t+2t^2)^4}-$$
$$\frac{370\,c\,t^4}{(1-2t+2t^2)^4}+\frac{261\,338\,t^5}{(1-2t+2t^2)^4}-\frac{1638\,c\,t^5}{(1-2t+2t^2)^4}-\frac{294\,932\,t^6}{(1-2t+2t^2)^4}+\frac{5839\,c\,t^6}{2(1-2t+2t^2)^4}+\frac{281\,104\,t^7}{(1-2t+2t^2)^4}-$$
$$\frac{2760\,c\,t^7}{(1-2t+2t^2)^4}-\frac{225\,631\,t^8}{(1-2t+2t^2)^4}+\frac{1528\,c\,t^8}{(1-2t+2t^2)^4}+\frac{151\,441\,t^9}{(1-2t+2t^2)^4}-\frac{232\,c\,t^9}{(1-2t+2t^2)^4}-\frac{83\,943\,t^{10}}{(1-2t+2t^2)^4}-$$
$$\frac{420\,c\,t^{10}}{(1-2t+2t^2)^4}+\frac{37\,657\,t^{11}}{(1-2t+2t^2)^4}+\frac{440\,c\,t^{11}}{(1-2t+2t^2)^4}-\frac{13\,232\,t^{12}}{(1-2t+2t^2)^4}-\frac{224\,c\,t^{12}}{(1-2t+2t^2)^4}+\frac{3444\,t^{13}}{(1-2t+2t^2)^4}+$$
$$\frac{64\,c\,t^{13}}{(1-2t+2t^2)^4}-\frac{596\,t^{14}}{(1-2t+2t^2)^4}-\frac{8\,c\,t^{14}}{(1-2t+2t^2)^4}+\frac{52\,t^{15}}{(1-2t+2t^2)^4}-\frac{10\,058\,u\,w}{(1-2t+2t^2)^4}-\frac{4\,u\,w}{t^4(1-2t+2t^2)^4}+$$
$$\frac{137\,u\,w}{2t^3(1-2t+2t^2)^4}-\frac{1087\,u\,w}{2t^2(1-2t+2t^2)^4}+\frac{5505\,u\,w}{2t(1-2t+2t^2)^4}+\frac{28\,262\,t\,u\,w}{(1-2t+2t^2)^4}-\frac{63\,376\,t^2\,u\,w}{(1-2t+2t^2)^4}+\frac{232\,131\,t^3\,u\,w}{2(1-2t+2t^2)^4}-$$
$$\frac{352\,201\,t^4\,u\,w}{2(1-2t+2t^2)^4}+\frac{446\,411\,t^5\,u\,w}{2(1-2t+2t^2)^4}-\frac{237\,172\,t^6\,u\,w}{(1-2t+2t^2)^4}+\frac{211\,108\,t^7\,u\,w}{(1-2t+2t^2)^4}-\frac{156\,574\,t^8\,u\,w}{(1-2t+2t^2)^4}+\frac{95\,722\,t^9\,u\,w}{(1-2t+2t^2)^4}-$$
$$\frac{47\,346\,t^{10}\,u\,w}{(1-2t+2t^2)^4}+\frac{18\,368\,t^{11}\,u\,w}{(1-2t+2t^2)^4}-\frac{5294\,t^{12}\,u\,w}{(1-2t+2t^2)^4}+\frac{1020\,t^{13}\,u\,w}{(1-2t+2t^2)^4}-\frac{100\,t^{14}\,u\,w}{(1-2t+2t^2)^4}-\frac{1862\,u^2\,w^2}{(1-2t+2t^2)^4}-$$
$$\frac{3\,u^2\,w^2}{2t^4(1-2t+2t^2)^4}+\frac{39\,u^2\,w^2}{2t^3(1-2t+2t^2)^4}-\frac{259\,u^2\,w^2}{2t^2(1-2t+2t^2)^4}+\frac{1143\,u^2\,w^2}{2t(1-2t+2t^2)^4}+\frac{4731\,t\,u^2\,w^2}{(1-2t+2t^2)^4}-$$
$$\frac{19\,363\,t^2\,u^2\,w^2}{2(1-2t+2t^2)^4}+\frac{32\,545\,t^3\,u^2\,w^2}{2(1-2t+2t^2)^4}-\frac{22\,723\,t^4\,u^2\,w^2}{(1-2t+2t^2)^4}+\frac{26\,506\,t^5\,u^2\,w^2}{(1-2t+2t^2)^4}-\frac{51\,681\,t^6\,u^2\,w^2}{2(1-2t+2t^2)^4}+\frac{41\,927\,t^7\,u^2\,w^2}{2(1-2t+2t^2)^4}-$$
$$\left.\left.\frac{28\,031\,t^8\,u^2\,w^2}{2(1-2t+2t^2)^4}+\frac{15\,181\,t^9\,u^2\,w^2}{2(1-2t+2t^2)^4}-\frac{3234\,t^{10}\,u^2\,w^2}{(1-2t+2t^2)^4}+\frac{1029\,t^{11}\,u^2\,w^2}{(1-2t+2t^2)^4}-\frac{441\,t^{12}\,u^2\,w^2}{2(1-2t+2t^2)^4}+\frac{49\,t^{13}\,u^2\,w^2}{2(1-2t+2t^2)^4}\right]\right\}$$

» Knot[4, 1] →

$$\left\{1.82813,\ \mathbb{E}\left[3-\frac{1}{t}-t,\ 0,\ 0,\ -1709+\frac{65\,c}{2}-\frac{6}{t^4}-\frac{2\,c}{t^4}+\frac{72}{t^3}+\frac{35\,c}{2\,t^3}-\frac{366}{t^2}-\frac{53\,c}{t^2}+\frac{1023}{t}+\frac{53\,c}{t}+1751\,t-90\,c\,t-1105\,t^2+\right.\right.$$
$$40\,c\,t^2+421\,t^3+\frac{29\,c\,t^3}{2}-89\,t^4-17\,c\,t^4+8\,t^5+5\,c\,t^5-\frac{c\,t^6}{2}+814\,u\,w+\frac{2\,u\,w}{t^4}-\frac{39\,u\,w}{2\,t^3}+\frac{183\,u\,w}{2\,t^2}-\frac{623\,u\,w}{2\,t}-1422\,t\,u\,w+$$
$$1504\,t^2\,u\,w-\frac{1897}{2}t^3\,u\,w+\frac{701}{2}t^4\,u\,w-\frac{141}{2}t^5\,u\,w+6\,t^6\,u\,w-274\,u^2\,w^2-\frac{u^2\,w^2}{t^6}+\frac{13\,u^2\,w^2}{t^5}-\frac{70\,u^2\,w^2}{t^4}+\frac{202\,u^2\,w^2}{t^3}-$$
$$\left.\left.\frac{340\,u^2\,w^2}{t^2}+\frac{352\,u^2\,w^2}{t}+284\,t\,u^2\,w^2-\frac{757}{2}t^2\,u^2\,w^2+\frac{733}{2}t^3\,u^2\,w^2-214\,t^4\,u^2\,w^2+72\,t^5\,u^2\,w^2-13\,t^6\,u^2\,w^2+t^7\,u^2\,w^2\right]\right\}$$

» Knot[5, 1] → $\left\{3.9375,\right.$

$$\mathbb{E}\left[1+\frac{1}{t^2}-\frac{1}{t}-t+t^2,\ 0,\ 0,\ -\frac{1\,176\,734}{(1-2t+2t^2-2t^3+2t^4)^4}-\frac{56\,013\,c}{(1-2t+2t^2-2t^3+2t^4)^4}-\frac{6}{t^8(1-2t+2t^2-2t^3+2t^4)^4}-\right.$$
$$\frac{4\,c}{t^8(1-2t+2t^2-2t^3+2t^4)^4}+\frac{103}{t^7(1-2t+2t^2-2t^3+2t^4)^4}+\frac{45\,c}{t^7(1-2t+2t^2-2t^3+2t^4)^4}-$$
$$\frac{869}{t^6(1-2t+2t^2-2t^3+2t^4)^4}-\frac{515\,c}{2\,t^6(1-2t+2t^2-2t^3+2t^4)^4}+\frac{4870}{t^5(1-2t+2t^2-2t^3+2t^4)^4}+$$
$$\frac{1011\,c}{t^5(1-2t+2t^2-2t^3+2t^4)^4}-\frac{20\,610}{t^4(1-2t+2t^2-2t^3+2t^4)^4}-\frac{3090\,c}{t^4(1-2t+2t^2-2t^3+2t^4)^4}+$$
$$\frac{70\,735}{t^3(1-2t+2t^2-2t^3+2t^4)^4}+\frac{7844\,c}{t^3(1-2t+2t^2-2t^3+2t^4)^4}-\frac{205\,721}{t^2(1-2t+2t^2-2t^3+2t^4)^4}-$$

$$\frac{17\,127\,c}{t^2\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{521\,733}{t\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{65\,671\,c}{2t\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{2\,393\,896\,t}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{85\,686\,c\,t}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{4\,438\,945\,t^2}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{117\,878\,c\,t^2}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{7\,562\,024\,t^3}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{145\,517\,c\,t^3}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{11\,907\,236\,t^4}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{319\,453\,c\,t^4}{2\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{17\,411\,143\,t^5}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{152\,371\,c\,t^5}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{23\,727\,054\,t^6}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{119\,200\,c\,t^6}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{30\,215\,841\,t^7}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{62\,350\,c\,t^7}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{36\,029\,283\,t^8}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{9177\,c\,t^8}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{40\,279\,647\,t^9}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{163\,095\,c\,t^9}{2\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{42\,252\,459\,t^{10}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{140\,047\,c\,t^{10}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{41\,595\,373\,t^{11}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{173\,632\,c\,t^{11}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{38\,416\,960\,t^{12}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{178\,208\,c\,t^{12}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{33\,258\,592\,t^{13}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{157\,296\,c\,t^{13}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{26\,949\,260\,t^{14}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{120\,104\,c\,t^{14}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{20\,394\,972\,t^{15}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{77\,940\,c\,t^{15}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{14\,373\,661\,t^{16}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{40\,464\,c\,t^{16}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{9\,397\,327\,t^{17}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{13\,340\,c\,t^{17}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{5\,670\,811\,t^{18}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{2200\,c\,t^{18}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{3\,137\,865\,t^{19}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{8272\,c\,t^{19}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{1\,578\,352\,t^{20}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{8456\,c\,t^{20}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{713\,324\,t^{21}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{6104\,c\,t^{21}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{285\,032\,t^{22}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{3472\,c\,t^{22}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{98\,396\,t^{23}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{1584\,c\,t^{23}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{28\,320\,t^{24}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{560\,c\,t^{24}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{6400\,t^{25}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{136\,c\,t^{25}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{1012\,t^{26}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{16\,c\,t^{26}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{84\,t^{27}}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{881\,918\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{6\,u\,w}{t^8\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{107\,u\,w}{t^7\left(1-2t+2t^2-2t^3+2t^4\right)^4}-$$
$$\frac{1759\,u\,w}{2t^6\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{9387\,u\,w}{2t^5\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{37\,589\,u\,w}{2t^4\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{122\,175\,u\,w}{2t^3\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{337\,651\,u\,w}{2t^2\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{408\,423\,u\,w}{t\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{1\,723\,548\,t\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{3\,079\,822\,t^2\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{5\,070\,373\,t^3\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{15\,470\,609\,t^4\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4\right)^4}+$$
$$\frac{21\,968\,157\,t^5\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{29\,133\,195\,t^6\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{36\,172\,057\,t^7\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4\right)^4}-$$
$$\frac{42\,123\,145\,t^8\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{23\,030\,257\,t^9\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{23\,659\,746\,t^{10}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{22\,836\,424\,t^{11}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-$$
$$\frac{20\,697\,464\,t^{12}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{17\,594\,818\,t^{13}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{14\,004\,160\,t^{14}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{10\,409\,790\,t^{15}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-$$
$$\frac{7\,202\,088\,t^{16}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{4\,616\,746\,t^{17}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{2\,725\,696\,t^{18}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{1\,470\,400\,t^{19}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-$$
$$\frac{717\,010\,t^{20}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{311\,336\,t^{21}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-\frac{117\,798\,t^{22}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}+\frac{37\,560\,t^{23}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4\right)^4}-$$

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$$\frac{9528\,t^{24}\,u\,w}{(1-2t+2t^2-2t^3+2t^4)^4}+\frac{1716\,t^{25}\,u\,w}{(1-2t+2t^2-2t^3+2t^4)^4}-\frac{164\,t^{26}\,u\,w}{(1-2t+2t^2-2t^3+2t^4)^4}-\frac{234\,597\,u^2\,w^2}{2\,(1-2t+2t^2-2t^3+2t^4)^4}-$$
$$\frac{5\,u^2\,w^2}{2\,t^8\,(1-2t+2t^2-2t^3+2t^4)^4}+\frac{65\,u^2\,w^2}{2\,t^7\,(1-2t+2t^2-2t^3+2t^4)^4}-\frac{431\,u^2\,w^2}{2\,t^6\,(1-2t+2t^2-2t^3+2t^4)^4}+$$
$$\frac{1959\,u^2\,w^2}{2\,t^5\,(1-2t+2t^2-2t^3+2t^4)^4}-\frac{3460\,u^2\,w^2}{t^4\,(1-2t+2t^2-2t^3+2t^4)^4}+\frac{10\,160\,u^2\,w^2}{t^3\,(1-2t+2t^2-2t^3+2t^4)^4}-$$
$$\frac{25\,786\,u^2\,w^2}{t^2\,(1-2t+2t^2-2t^3+2t^4)^4}+\frac{57\,957\,u^2\,w^2}{t\,(1-2t+2t^2-2t^3+2t^4)^4}+\frac{432\,715\,t\,u^2\,w^2}{2\,(1-2t+2t^2-2t^3+2t^4)^4}-$$
$$\frac{366\,920\,t^2\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}+\frac{575\,894\,t^3\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}-\frac{1\,681\,495\,t^4\,u^2\,w^2}{2\,(1-2t+2t^2-2t^3+2t^4)^4}+\frac{2\,292\,095\,t^5\,u^2\,w^2}{2\,(1-2t+2t^2-2t^3+2t^4)^4}-$$
$$\frac{1\,462\,813\,t^6\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}+\frac{1\,751\,945\,t^7\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}-\frac{3\,943\,157\,t^8\,u^2\,w^2}{2\,(1-2t+2t^2-2t^3+2t^4)^4}+\frac{4\,173\,037\,t^9\,u^2\,w^2}{2\,(1-2t+2t^2-2t^3+2t^4)^4}-$$
$$\frac{2\,077\,056\,t^{10}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}+\frac{1\,944\,310\,t^{11}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}-\frac{1\,710\,038\,t^{12}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}+\frac{1\,410\,982\,t^{13}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}-$$
$$\frac{2\,179\,699\,t^{14}\,u^2\,w^2}{2\,(1-2t+2t^2-2t^3+2t^4)^4}+\frac{1\,571\,379\,t^{15}\,u^2\,w^2}{2\,(1-2t+2t^2-2t^3+2t^4)^4}-\frac{526\,528\,t^{16}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}+\frac{326\,236\,t^{17}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}-$$
$$\frac{185\,566\,t^{18}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}+\frac{95\,967\,t^{19}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}-\frac{44\,509\,t^{20}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}+\frac{18\,152\,t^{21}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}-$$
$$\frac{6318\,t^{22}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}+\frac{1782\,t^{23}\,u^2\,w^2}{(1-2t+2t^2-2t^3+2t^4)^4}-\frac{729\,t^{24}\,u^2\,w^2}{2\,(1-2t+2t^2-2t^3+2t^4)^4}+\frac{81\,t^{25}\,u^2\,w^2}{2\,(1-2t+2t^2-2t^3+2t^4)^4}\Big]\Big\}$$

» Knot[5, 2] →

$$\Big\{12.3594,\ \mathbb{E}\Big[-3+\frac{2}{t}+2t,\ 0,\ 0,\ -\frac{324\,181\,176}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{7\,004\,976\,c}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{192}{t^6\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{6400}{t^5\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{106\,288}{t^4\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{512\,c}{t^4\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{1\,168\,048}{t^3\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{12\,416\,c}{t^3\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{9\,525\,968}{t^2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{149\,696\,c}{t^2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{61\,341\,216}{t\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{1\,190\,944\,c}{t\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{1\,443\,570\,872\,t}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{32\,367\,184\,c\,t}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{5\,519\,827\,484\,t^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{121\,906\,448\,c\,t^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{18\,382\,533\,240\,t^3}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{383\,369\,760\,c\,t^3}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{53\,903\,165\,679\,t^4}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{1\,022\,911\,672\,c\,t^4}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{140\,367\,418\,519\,t^5}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{2\,339\,801\,024\,c\,t^5}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{326\,819\,630\,169\,t^6}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{4\,614\,285\,180\,c\,t^6}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{684\,052\,972\,956\,t^7}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$

$$\frac{7\,853\,460\,226\,c\,t^7}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{1\,292\,653\,504\,916\,t^8}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{11\,480\,156\,107\,c\,t^8}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{2\,212\,890\,723\,884\,t^9}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} +$$
$$\frac{14\,206\,467\,605\,c\,t^9}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{3\,440\,804\,716\,118\,t^{10}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{14\,366\,349\,573\,c\,t^{10}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{4\,868\,803\,630\,878\,t^{11}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} +$$
$$\frac{10\,743\,897\,233\,c\,t^{11}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{6\,277\,948\,442\,437\,t^{12}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{3\,499\,559\,501\,c\,t^{12}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{7\,381\,864\,490\,499\,t^{13}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{5\,482\,472\,255\,c\,t^{13}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{7\,916\,691\,665\,163\,t^{14}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} +$$
$$\frac{13\,266\,729\,773\,c\,t^{14}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{7\,740\,771\,305\,437\,t^{15}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{17\,296\,362\,889\,c\,t^{15}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{6\,893\,977\,186\,872\,t^{16}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} +$$
$$\frac{16\,689\,881\,749\,c\,t^{16}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{5\,583\,598\,470\,622\,t^{17}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{12\,545\,318\,353\,c\,t^{17}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{4\,103\,308\,383\,882\,t^{18}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} +$$
$$\frac{7\,111\,090\,025\,c\,t^{18}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{2\,727\,773\,853\,487\,t^{19}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{2\,483\,230\,507\,c\,t^{19}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{1\,633\,870\,234\,784\,t^{20}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{293\,192\,426\,c\,t^{20}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{877\,324\,614\,940\,t^{21}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} +$$
$$\frac{1\,300\,387\,540\,c\,t^{21}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{419\,597\,098\,450\,t^{22}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{1\,229\,126\,464\,c\,t^{22}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{177\,276\,856\,572\,t^{23}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} +$$
$$\frac{786\,196\,888\,c\,t^{23}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{65\,463\,233\,841\,t^{24}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{385\,748\,000\,c\,t^{24}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{20\,835\,387\,681\,t^{25}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} +$$
$$\frac{149\,430\,352\,c\,t^{25}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{5\,609\,052\,740\,t^{26}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{45\,511\,280\,c\,t^{26}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{1\,244\,011\,476\,t^{27}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} +$$
$$\frac{10\,607\,568\,c\,t^{27}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{218\,627\,388\,t^{28}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$
$$\frac{1\,789\,344\,c\,t^{28}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} + \frac{28\,600\,468\,t^{29}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} +$$
$$\frac{195\,264\,c\,t^{29}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} - \frac{2\,480\,928\,t^{30}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4} -$$

$$\frac{10\,368\,c\,t^{30}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{107\,280\,t^{31}}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{166\,225\,744\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{768\,u\,w}{t^5\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{23\,680\,u\,w}{t^4\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{364\,096\,u\,w}{t^3\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{3\,703\,456\,u\,w}{t^2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{27\,935\,360\,u\,w}{t\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{810\,955\,536\,t\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{3\,329\,988\,720\,t^2\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{11\,727\,952\,320\,t^3\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{35\,928\,998\,932\,t^4\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{96\,781\,128\,416\,t^5\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{231\,154\,994\,736\,t^6\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{492\,773\,724\,568\,t^7\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{942\,494\,256\,431\,t^8\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{1\,623\,900\,661\,354\,t^9\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{2\,528\,371\,966\,305\,t^{10}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{3\,565\,488\,883\,462\,t^{11}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{4\,561\,126\,450\,083\,t^{12}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{5\,297\,661\,129\,152\,t^{13}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{5\,588\,001\,858\,263\,t^{14}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{5\,350\,665\,977\,982\,t^{15}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{4\,645\,828\,179\,213\,t^{16}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{3\,651\,159\,496\,056\,t^{17}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{2\,590\,386\,855\,883\,t^{18}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{1\,653\,130\,843\,238\,t^{19}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{944\,512\,710\,284\,t^{20}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{480\,179\,122\,848\,t^{21}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{215\,498\,564\,310\,t^{22}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{84\,495\,798\,200\,t^{23}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{28\,551\,423\,602\,t^{24}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{8\,161\,351\,246\,t^{25}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{1\,922\,705\,364\,t^{26}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{359\,160\,948\,t^{27}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{49\,985\,896\,t^{28}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{4\,618\,384\,t^{29}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{213\,024\,t^{30}\,u\,w}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{13\,815\,272\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{640\,u^2\,w^2}{t^4\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{17\,280\,u^2\,w^2}{t^3\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-\frac{232\,800\,u^2\,w^2}{t^2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+$$
$$\frac{2\,079\,488\,u^2\,w^2}{t\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{72\,627\,848\,t\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{313\,970\,318\,t^2\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{1\,145\,458\,164\,t^3\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$

$$\frac{7\,184\,929\,241\,t^4\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{19\,637\,038\,955\,t^5\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{47\,254\,582\,801\,t^6\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{100\,915\,585\,755\,t^7\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{192\,426\,909\,643\,t^8\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{329\,153\,667\,793\,t^9\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{253\,430\,621\,588\,t^{10}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{352\,222\,125\,738\,t^{11}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{885\,134\,374\,545\,t^{12}\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{1\,006\,405\,938\,861\,t^{13}\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{1\,035\,635\,524\,687\,t^{14}\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{963\,938\,051\,825\,t^{15}\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{405\,193\,045\,117\,t^{16}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{306\,985\,559\,089\,t^{17}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{208\,913\,399\,963\,t^{18}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{127\,137\,470\,439\,t^{19}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{68\,782\,388\,840\,t^{20}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{32\,825\,772\,502\,t^{21}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{13\,679\,417\,914\,t^{22}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{4\,910\,885\,448\,t^{23}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{2\,982\,192\,993\,t^{24}\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{746\,270\,537\,t^{25}\,u^2\,w^2}{2\,(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{74\,056\,200\,t^{26}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{10\,957\,244\,t^{27}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}-$$
$$\frac{1\,077\,496\,t^{28}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}+\frac{53\,000\,t^{29}\,u^2\,w^2}{(1-t+t^2)^4\,(1-2t+2t^2)^4\,(2-4t+3t^2)^4}\Big]\Big\}$$

» `Knot[6, 1] → {11.0469,`

$$\mathbb{E}\Big[5-\frac{2}{t}-2t,\,0,\,0,\,-\frac{2\,649\,259\,328}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{20\,879\,504\,c}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{704}{t^6\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{29\,696}{t^5\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{597\,312}{t^4\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{512\,c}{t^4\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{7\,632\,192}{t^3\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{18\,048\,c}{t^3\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{69\,619\,296}{t^2\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{295\,744\,c}{t^2\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{482\,932\,816}{t\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{2\,990\,368\,c}{t\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{11\,797\,735\,776\,t}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{106\,698\,800\,c\,t}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{43\,433\,836\,652\,t^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{412\,358\,640\,c\,t^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{133\,926\,146\,248\,t^3}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{1\,226\,419\,936\,c\,t^3}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{349\,124\,393\,048\,t^4}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{2\,821\,537\,288\,c\,t^4}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{774\,623\,773\,872\,t^5}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{4\,975\,149\,392\,c\,t^5}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{1\,469\,764\,289\,804\,t^6}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{6\,488\,701\,004\,c\,t^6}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{2\,392\,348\,601\,489\,t^7}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{5\,578\,211\,490\,c\,t^7}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{3\,346\,907\,789\,647\,t^8}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$

$$\frac{1\,484\,504\,345\,c\,t^8}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{4\,027\,661\,576\,997\,t^9}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{4\,110\,153\,909\,c\,t^9}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{4\,168\,301\,598\,389\,t^{10}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{7\,920\,714\,751\,c\,t^{10}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{3\,705\,332\,155\,858\,t^{11}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{7\,856\,228\,601\,c\,t^{11}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{2\,822\,560\,564\,431\,t^{12}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{4\,778\,824\,430\,c\,t^{12}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{1\,835\,868\,701\,251\,t^{13}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{1\,306\,188\,828\,c\,t^{13}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{1\,014\,346\,961\,194\,t^{14}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{677\,201\,456\,c\,t^{14}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{472\,710\,831\,370\,t^{15}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{1\,060\,946\,952\,c\,t^{15}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{184\,023\,554\,845\,t^{16}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{699\,151\,584\,c\,t^{16}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{59\,060\,995\,913\,t^{17}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{302\,111\,856\,c\,t^{17}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{15\,344\,983\,020\,t^{18}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{92\,027\,664\,c\,t^{18}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{3\,144\,903\,088\,t^{19}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{19\,770\,480\,c\,t^{19}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{489\,101\,172\,t^{20}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{2\,871\,072\,c\,t^{20}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{54\,219\,396\,t^{21}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{254\,016\,c\,t^{21}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{3\,815\,136\,t^{22}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{10\,368\,c\,t^{22}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{128\,016\,t^{23}}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{909\,136\,576\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{1536\,u\,w}{t^5\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{63\,648\,u\,w}{t^4\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{1\,251\,744\,u\,w}{t^3\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{15\,547\,136\,u\,w}{t^2\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{136\,889\,376\,u\,w}{t\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{4\,731\,357\,472\,t\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{19\,788\,325\,200\,t^2\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{67\,686\,362\,528\,t^3\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{191\,719\,592\,246\,t^4\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{453\,716\,484\,986\,t^5\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{902\,861\,084\,818\,t^6\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{1\,517\,347\,973\,398\,t^7\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{2\,159\,689\,249\,449\,t^8\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{2\,607\,050\,210\,210\,t^9\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{2\,669\,346\,567\,043\,t^{10}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{2\,315\,430\,218\,804\,t^{11}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{1\,696\,994\,470\,848\,t^{12}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{1\,046\,353\,183\,172\,t^{13}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{539\,342\,246\,968\,t^{14}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{230\,320\,928\,186\,t^{15}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{80\,469\,395\,718\,t^{16}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{22\,599\,042\,226\,t^{17}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{4\,973\,658\,744\,t^{18}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{825\,613\,412\,t^{19}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{97\,141\,592\,t^{20}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{7\,217\,424\,t^{21}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{254\,496\,t^{22}\,u\,w}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{51\,456\,804\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{776\,u^2\,w^2}{t^4\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{30\,264\,u^2\,w^2}{t^3\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{555\,384\,u^2\,w^2}{t^2\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{6\,378\,968\,u^2\,w^2}{t\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{310\,119\,364\,t\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{1\,450\,429\,018\,t^2\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{5\,398\,338\,336\,t^3\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{16\,269\,168\,229\,t^4\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{40\,192\,016\,589\,t^5\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{82\,100\,524\,777\,t^6\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$

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$$\frac{139\,498\,737\,853\,t^7\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{395\,810\,997\,767\,t^8\,u^2\,w^2}{2\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{469\,760\,185\,283\,t^9\,u^2\,w^2}{2\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{466\,504\,347\,881\,t^{10}\,u^2\,w^2}{2\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{387\,050\,488\,009\,t^{11}\,u^2\,w^2}{2\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{133\,693\,478\,168\,t^{12}\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{76\,475\,411\,217\,t^{13}\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{35\,922\,330\,073\,t^{14}\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{13\,691\,601\,956\,t^{15}\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-$$
$$\frac{8\,325\,463\,945\,t^{16}\,u^2\,w^2}{2\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{1\,969\,591\,273\,t^{17}\,u^2\,w^2}{2\,(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{174\,576\,448\,t^{18}\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+$$
$$\frac{21\,804\,700\,t^{19}\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}-\frac{1\,710\,424\,t^{20}\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}+\frac{63\,368\,t^{21}\,u^2\,w^2}{(1-4t+2t^2)^4\,(2-6t+3t^2)^4}\Big]\Big\}$$

» Knot[6, 2] →

$$\Big\{7.15625,\ \mathbb{E}\Big[-3-\frac{1}{t^2}+\frac{3}{t}+3t-t^2,\ 0,\ 0,\ -\frac{6\,427\,573\,419}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{250\,873\,706\,c}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-$$
$$\frac{32}{(-2+t)^4\,t^{10}\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{1024}{(-2+t)^4\,t^9\,(1-4t+6t^2-6t^3+2t^4)^4}-$$
$$\frac{16\,144}{(-2+t)^4\,t^8\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{64\,c}{(-2+t)^4\,t^8\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{167\,792}{(-2+t)^4\,t^7\,(1-4t+6t^2-6t^3+2t^4)^4}+$$
$$\frac{1808\,c}{(-2+t)^4\,t^7\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{1\,296\,918}{(-2+t)^4\,t^6\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{24\,616\,c}{(-2+t)^4\,t^6\,(1-4t+6t^2-6t^3+2t^4)^4}+$$
$$\frac{7\,965\,004}{(-2+t)^4\,t^5\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{215\,848\,c}{(-2+t)^4\,t^5\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{40\,510\,479}{(-2+t)^4\,t^4\,(1-4t+6t^2-6t^3+2t^4)^4}-$$
$$\frac{1\,373\,864\,c}{(-2+t)^4\,t^4\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{175\,432\,191}{(-2+t)^4\,t^3\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{6\,778\,989\,c}{(-2+t)^4\,t^3\,(1-4t+6t^2-6t^3+2t^4)^4}-$$
$$\frac{659\,546\,061}{(-2+t)^4\,t^2\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{54\,046\,229\,c}{2\,(-2+t)^4\,t^2\,(1-4t+6t^2-6t^3+2t^4)^4}+$$
$$\frac{2\,183\,019\,643}{(-2+t)^4\,t\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{89\,476\,550\,c}{(-2+t)^4\,t\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{16\,967\,658\,231\,t}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+$$
$$\frac{603\,630\,726\,c\,t}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{40\,403\,652\,826\,t^2}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{1\,257\,346\,624\,c\,t^2}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+$$
$$\frac{87\,201\,407\,735\,t^3}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{4\,555\,582\,457\,c\,t^3}{2\,(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{171\,234\,918\,078\,t^4}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-$$
$$\frac{3\,589\,483\,579\,c\,t^4}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{306\,875\,406\,750\,t^5}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{4\,892\,164\,148\,c\,t^5}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-$$
$$\frac{503\,153\,547\,209\,t^6}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{5\,674\,598\,352\,c\,t^6}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{756\,217\,733\,799\,t^7}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+$$
$$\frac{5\,384\,926\,659\,c\,t^7}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{1\,043\,364\,342\,467\,t^8}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{7\,439\,139\,451\,c\,t^8}{2\,(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+$$
$$\frac{1\,322\,858\,249\,233\,t^9}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{876\,429\,090\,c\,t^9}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{1\,542\,205\,309\,806\,t^{10}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+$$
$$\frac{2\,415\,492\,246\,c\,t^{10}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{1\,653\,507\,198\,262\,t^{11}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{5\,166\,813\,582\,c\,t^{11}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-$$
$$\frac{1\,630\,068\,388\,013\,t^{12}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{6\,575\,602\,636\,c\,t^{12}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{1\,476\,564\,359\,844\,t^{13}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-$$
$$\frac{12\,782\,179\,513\,c\,t^{13}}{2\,(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{1\,227\,594\,429\,044\,t^{14}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+\frac{4\,976\,422\,243\,c\,t^{14}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+$$
$$\frac{935\,197\,584\,620\,t^{15}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{3\,054\,745\,044\,c\,t^{15}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}-\frac{651\,395\,637\,292\,t^{16}}{(-2+t)^4\,(1-4t+6t^2-6t^3+2t^4)^4}+$$

$$\frac{1\,324\,119\,560\,c\,t^{16}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{413\,667\,934\,324\,t^{17}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{178\,107\,240\,c\,t^{17}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-$$
$$\frac{238\,660\,627\,296\,t^{18}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{346\,039\,704\,c\,t^{18}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{124\,542\,332\,936\,t^{19}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{436\,509\,956\,c\,t^{19}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{58\,465\,878\,425\,t^{20}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{328\,379\,544\,c\,t^{20}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{24\,526\,686\,531\,t^{21}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{187\,730\,748\,c\,t^{21}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{9\,119\,176\,279\,t^{22}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-$$
$$\frac{86\,422\,184\,c\,t^{22}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{2\,974\,577\,721\,t^{23}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{32\,545\,792\,c\,t^{23}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-$$
$$\frac{840\,419\,672\,t^{24}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{10\,009\,512\,c\,t^{24}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{202\,341\,328\,t^{25}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{2\,481\,880\,c\,t^{25}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{40\,636\,520\,t^{26}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{484\,528\,c\,t^{26}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{6\,612\,748\,t^{27}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{71\,696\,c\,t^{27}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{836\,264\,t^{28}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-$$
$$\frac{7552\,c\,t^{28}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{76\,976\,t^{29}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{504\,c\,t^{29}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-$$
$$\frac{4580\,t^{30}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{16\,c\,t^{30}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{132\,t^{31}}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-$$
$$\frac{8\,087\,017\,909\,u\,w}{2\,(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{64\,u\,w}{(-2+t)^4\,t^9\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{2080\,u\,w}{(-2+t)^4\,t^8\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{33\,328\,u\,w}{(-2+t)^4\,t^7\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{351\,004\,u\,w}{(-2+t)^4\,t^6\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{2\,731\,186\,u\,w}{(-2+t)^4\,t^5\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{16\,727\,668\,u\,w}{(-2+t)^4\,t^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{83\,899\,593\,u\,w}{(-2+t)^4\,t^3\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{708\,121\,037\,u\,w}{2\,(-2+t)^4\,t^2\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{2\,564\,207\,119\,u\,w}{2\,(-2+t)^4\,t\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{22\,472\,216\,411\,t\,u\,w}{2\,(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{55\,528\,780\,645\,t^2\,u\,w}{2\,(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{61\,457\,891\,755\,t^3\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{122\,592\,971\,756\,t^4\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{221\,426\,346\,906\,t^5\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-$$
$$\frac{363\,518\,787\,122\,t^6\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{544\,074\,127\,479\,t^7\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{1\,488\,122\,849\,467\,t^8\,u\,w}{2\,(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{1\,862\,568\,800\,165\,t^9\,u\,w}{2\,(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{2\,135\,750\,888\,875\,t^{10}\,u\,w}{2\,(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{2\,244\,639\,073\,297\,t^{11}\,u\,w}{2\,(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-$$
$$\frac{2\,161\,964\,943\,135\,t^{12}\,u\,w}{2\,(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{953\,516\,880\,229\,t^{13}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{769\,289\,199\,798\,t^{14}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{566\,591\,892\,560\,t^{15}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{379\,957\,314\,660\,t^{16}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{231\,208\,998\,858\,t^{17}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-$$
$$\frac{127\,117\,881\,996\,t^{18}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{62\,806\,002\,782\,t^{19}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{27\,700\,512\,440\,t^{20}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$
$$\frac{10\,816\,215\,938\,t^{21}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{3\,700\,839\,808\,t^{22}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{1\,095\,376\,748\,t^{23}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-$$
$$\frac{275\,885\,458\,t^{24}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+\frac{57\,872\,416\,t^{25}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}-\frac{9\,820\,670\,t^{26}\,u\,w}{(-2+t)^4\left(1-4t+6t^2-6t^3+2t^4\right)^4}+$$

$$\frac{1\,292\,932\,t^{27}\,u\,w}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{123\,688\,t^{28}\,u\,w}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{7636\,t^{29}\,u\,w}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-$$
$$\frac{228\,t^{30}\,u\,w}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{474\,941\,074\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{48\,u^2\,w^2}{(-2+t)^4\,t^8\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+$$
$$\frac{1488\,u^2\,w^2}{(-2+t)^4\,t^7\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{44\,705\,u^2\,w^2}{2\,(-2+t)^4\,t^6\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+$$
$$\frac{434\,959\,u^2\,w^2}{2\,(-2+t)^4\,t^5\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{3\,090\,639\,u^2\,w^2}{2\,(-2+t)^4\,t^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+$$
$$\frac{17\,140\,413\,u^2\,w^2}{2\,(-2+t)^4\,t^3\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{38\,700\,143\,u^2\,w^2}{(-2+t)^4\,t^2\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+$$

» $$\frac{146\,507\,724\,u^2\,w^2}{(-2+t)^4\,t\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{1\,339\,564\,639\,t\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{6\,655\,427\,233\,t^2\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+$$
$$\frac{14\,701\,510\,433\,t^3\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{29\,094\,579\,769\,t^4\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{51\,891\,248\,065\,t^5\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-$$
$$\frac{83\,794\,883\,127\,t^6\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{122\,950\,013\,701\,t^7\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{164\,353\,299\,341\,t^8\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+$$
$$\frac{200\,525\,963\,771\,t^9\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{223\,559\,714\,019\,t^{10}\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{227\,845\,308\,637\,t^{11}\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-$$
$$\frac{212\,234\,526\,117\,t^{12}\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{180\,525\,268\,803\,t^{13}\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{69\,998\,809\,122\,t^{14}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+$$
$$\frac{49\,376\,736\,116\,t^{15}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{31\,581\,150\,780\,t^{16}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{18\,239\,613\,080\,t^{17}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-$$
$$\frac{18\,924\,961\,191\,t^{18}\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{8\,761\,124\,295\,t^{19}\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{1\,794\,759\,730\,t^{20}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+$$
$$\frac{644\,096\,312\,t^{21}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{199\,856\,724\,t^{22}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{52\,736\,297\,t^{23}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-$$
$$\frac{11\,580\,497\,t^{24}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{2\,055\,212\,t^{25}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{282\,680\,t^{26}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+$$
$$\frac{28\,222\,t^{27}\,u^2\,w^2}{(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}-\frac{3633\,t^{28}\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}+\frac{113\,t^{29}\,u^2\,w^2}{2\,(-2+t)^4\,\left(1-4\,t+6\,t^2-6\,t^3+2\,t^4\right)^4}\Big]\Big\}$$

» Knot[6, 3] → {5.01563,

$$\mathbb{E}\Big[5+\frac{1}{t^2}-\frac{3}{t}-3\,t+t^2,\,0,\,0,\,-\frac{83\,404\,066}{\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{5\,968\,888\,c}{\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{2}{t^{10}\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+$$
$$\frac{52}{t^9\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{689}{t^8\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{4\,c}{t^8\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+\frac{6140}{t^7\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+$$
$$\frac{89\,c}{t^7\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{41\,120}{t^6\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{2029\,c}{2\,t^6\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+\frac{219\,628}{t^5\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+$$
$$\frac{7768\,c}{t^5\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{970\,601}{t^4\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{44\,462\,c}{t^4\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+\frac{3\,638\,212}{t^3\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+$$
$$\frac{201\,152\,c}{t^3\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{11\,774\,275}{t^2\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{1\,486\,981\,c}{2\,t^2\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+$$
$$\frac{33\,335\,725}{t\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+\frac{4\,584\,009\,c}{2\,t\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+\frac{185\,841\,028\,t}{\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+\frac{13\,222\,334\,c\,t}{\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-$$
$$\frac{370\,996\,437\,t^2}{\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-\frac{24\,954\,421\,c\,t^2}{\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+\frac{666\,532\,584\,t^3}{\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}+\frac{79\,880\,127\,c\,t^3}{2\,\left(1-3\,t+6\,t^2-4\,t^3+t^4\right)^4}-$$

$$\frac{1\,081\,135\,764\,t^4}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{106\,894\,251\,c\,t^4}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{1\,586\,417\,092\,t^5}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{57\,787\,600\,c\,t^5}{(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{2\,107\,819\,735\,t^6}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{45\,942\,972\,c\,t^6}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{2\,535\,710\,340\,t^7}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{16\,898\,819\,c\,t^7}{(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{2\,759\,316\,848\,t^8}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{42\,627\,153\,c\,t^8}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{2\,711\,348\,505\,t^9}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{108\,906\,005\,c\,t^9}{2\,(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{2\,399\,937\,803\,t^{10}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{139\,922\,415\,c\,t^{10}}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{1\,907\,784\,055\,t^{11}}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{64\,324\,220\,c\,t^{11}}{(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{1\,357\,077\,569\,t^{12}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{44\,243\,260\,c\,t^{12}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{860\,189\,351\,t^{13}}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{42\,321\,355\,c\,t^{13}}{2\,(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{483\,457\,818\,t^{14}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{4\,045\,602\,c\,t^{14}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{239\,537\,740\,t^{15}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{8\,496\,369\,c\,t^{15}}{2\,(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{103\,897\,791\,t^{16}}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{5\,806\,491\,c\,t^{16}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{39\,113\,609\,t^{17}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{4\,270\,135\,c\,t^{17}}{(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{12\,642\,794\,t^{18}}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{2\,303\,602\,c\,t^{18}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{3\,459\,949\,t^{19}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{976\,574\,c\,t^{19}}{(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{786\,802\,t^{20}}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{663\,159\,c\,t^{20}}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{144\,832\,t^{21}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{90\,020\,c\,t^{21}}{(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{20\,762\,t^{22}}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{19\,229\,c\,t^{22}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{2178\,t^{23}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{3129\,c\,t^{23}}{(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{149\,t^{24}}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{366\,c\,t^{24}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{5\,t^{25}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{55\,c\,t^{25}}{2\,(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{c\,t^{26}}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{295\,755\,799\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{4\,u\,w}{t^{10}\,(1-3t+6t^2-4t^3+t^4)^4}-\frac{104\,u\,w}{t^9\,(1-3t+6t^2-4t^3+t^4)^4}+$$
$$\frac{1378\,u\,w}{t^8\,(1-3t+6t^2-4t^3+t^4)^4}-\frac{12\,265\,u\,w}{t^7\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{163\,731\,u\,w}{2\,t^6\,(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{868\,997\,u\,w}{2\,t^5\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{3\,801\,375\,u\,w}{2\,t^4\,(1-3t+6t^2-4t^3+t^4)^4}-\frac{14\,036\,573\,u\,w}{2\,t^3\,(1-3t+6t^2-4t^3+t^4)^4}+$$
$$\frac{22\,244\,102\,u\,w}{t^2\,(1-3t+6t^2-4t^3+t^4)^4}-\frac{122\,508\,109\,u\,w}{2\,t\,(1-3t+6t^2-4t^3+t^4)^4}-\frac{630\,216\,389\,t\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{1\,191\,385\,313\,t^2\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{1\,002\,900\,715\,t^3\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{3\,016\,005\,969\,t^4\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}-\frac{4\,058\,585\,507\,t^5\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{4\,894\,648\,661\,t^6\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{5\,294\,672\,429\,t^7\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{2\,569\,525\,283\,t^8\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{4\,475\,196\,405\,t^9\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{1\,747\,272\,476\,t^{10}\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{1\,222\,205\,236\,t^{11}\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{764\,631\,408\,t^{12}\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{853\,794\,005\,t^{13}\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{424\,109\,963\,t^{14}\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{93\,342\,211\,t^{15}\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{36\,214\,708\,t^{16}\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{12\,296\,173\,t^{17}\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{3\,618\,869\,t^{18}\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{911\,241\,t^{19}\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}+\frac{385\,585\,t^{20}\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}-\frac{66\,791\,t^{21}\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{9111\,t^{22}\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{919\,t^{23}\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{61\,t^{24}\,u\,w}{2\,(1-3t+6t^2-4t^3+t^4)^4}-\frac{t^{25}\,u\,w}{(1-3t+6t^2-4t^3+t^4)^4}-\frac{167\,096\,123\,u^2\,w^2}{2\,(1-3t+6t^2-4t^3+t^4)^4}-$$
$$\frac{3\,u^2\,w^2}{t^{10}\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{75\,u^2\,w^2}{t^9\,(1-3t+6t^2-4t^3+t^4)^4}-\frac{1921\,u^2\,w^2}{2\,t^8\,(1-3t+6t^2-4t^3+t^4)^4}+$$
$$\frac{16\,581\,u^2\,w^2}{2\,t^7\,(1-3t+6t^2-4t^3+t^4)^4}-\frac{107\,579\,u^2\,w^2}{2\,t^6\,(1-3t+6t^2-4t^3+t^4)^4}+\frac{555\,937\,u^2\,w^2}{2\,t^5\,(1-3t+6t^2-4t^3+t^4)^4}-$$

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$$\frac{1\,185\,314\,u^2\,w^2}{t^4\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{4\,269\,586\,u^2\,w^2}{t^3\left(1-3t+6t^2-4t^3+t^4\right)^4}-\frac{13\,205\,223\,u^2\,w^2}{t^2\left(1-3t+6t^2-4t^3+t^4\right)^4}+$$
$$\frac{35\,482\,724\,u^2\,w^2}{t\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{346\,963\,821\,t\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}-\frac{319\,137\,631\,t^2\,u^2\,w^2}{\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{521\,838\,715\,t^3\,u^2\,w^2}{\left(1-3t+6t^2-4t^3+t^4\right)^4}-$$
$$\frac{1\,520\,271\,187\,t^4\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{1\,975\,363\,633\,t^5\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}-\frac{2\,290\,799\,083\,t^6\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{2\,370\,765\,487\,t^7\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}-$$
$$\frac{2\,187\,889\,845\,t^8\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{1\,798\,052\,713\,t^9\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}-\frac{1\,313\,239\,587\,t^{10}\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{850\,086\,325\,t^{11}\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}-$$
$$\frac{485\,966\,529\,t^{12}\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{244\,213\,809\,t^{13}\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}-\frac{107\,244\,881\,t^{14}\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{40\,840\,661\,t^{15}\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}-$$
$$\frac{6\,676\,278\,t^{16}\,u^2\,w^2}{\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{1\,849\,163\,t^{17}\,u^2\,w^2}{\left(1-3t+6t^2-4t^3+t^4\right)^4}-\frac{852\,183\,t^{18}\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{159\,227\,t^{19}\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}-$$
$$\frac{23\,221\,t^{20}\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{2485\,t^{21}\,u^2\,w^2}{2\left(1-3t+6t^2-4t^3+t^4\right)^4}-\frac{87\,t^{22}\,u^2\,w^2}{\left(1-3t+6t^2-4t^3+t^4\right)^4}+\frac{3\,t^{23}\,u^2\,w^2}{\left(1-3t+6t^2-4t^3+t^4\right)^4}\Big]\Big\}$$

» `Knot[7, 1] → {6.6875,`

$$\mathbb{E}\Big[-1+\frac{1}{t^3}-\frac{1}{t^2}+\frac{1}{t}+t-t^2+t^3,\ 0,\ 0,\ -\frac{31\,699\,202}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{1\,553\,857\,c}{2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{8}{t^{12}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{6\,c}{t^{12}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{143}{t^{11}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{137\,c}{2\,t^{11}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{1245}{t^{10}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{399\,c}{t^{10}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{7178}{t^9\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{1600\,c}{t^9\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{31\,252}{t^8\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{5013\,c}{t^8\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{110\,630}{t^7\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{26\,325\,c}{2\,t^7\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{333\,757}{t^6\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{30\,256\,c}{t^6\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{886\,124}{t^5\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{62\,626\,c}{t^5\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{2\,118\,040}{t^4\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{237\,677\,c}{2\,t^4\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{4\,633\,159}{t^3\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{209\,131\,c}{t^3\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{9\,387\,821}{t^2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{344\,004\,c}{t^2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{17\,780\,343}{t\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{532\,009\,c}{t\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{53\,492\,872\,t}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{1\,074\,660\,c\,t}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{85\,825\,221\,t^2}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{1\,410\,446\,c\,t^2}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{131\,392\,744\,t^3}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{3\,515\,059\,c\,t^3}{2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{192\,506\,070\,t^4}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$

$$\frac{2\,078\,165\,c\,t^4}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{270\,574\,573\,t^5}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{2\,327\,244\,c\,t^5}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{365\,570\,026\,t^6}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{2\,458\,223\,c\,t^6}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{475\,572\,844\,t^7}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{4\,861\,319\,c\,t^7}{2\,(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{596\,514\,729\,t^8}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{2\,218\,324\,c\,t^8}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{722\,218\,350\,t^9}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{1\,816\,154\,c\,t^9}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{844\,792\,815\,t^{10}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{2\,487\,951\,c\,t^{10}}{2\,(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{955\,375\,872\,t^{11}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{545\,837\,c\,t^{11}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{1\,045\,137\,072\,t^{12}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{215\,020\,c\,t^{12}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{1\,106\,392\,418\,t^{13}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{964\,793\,c\,t^{13}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{1\,133\,645\,300\,t^{14}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{3\,260\,061\,c\,t^{14}}{2\,(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{1\,124\,367\,488\,t^{15}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{2\,148\,944\,c\,t^{15}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{1\,079\,370\,827\,t^{16}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{2\,480\,560\,c\,t^{16}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{1\,002\,694\,749\,t^{17}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{2\,609\,696\,c\,t^{17}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{901\,031\,379\,t^{18}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{2\,547\,244\,c\,t^{18}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{782\,799\,661\,t^{19}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{2\,326\,184\,c\,t^{19}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{657\,039\,192\,t^{20}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{1\,994\,276\,c\,t^{20}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{532\,315\,300\,t^{21}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{1\,604\,912\,c\,t^{21}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{415\,811\,182\,t^{22}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{1\,208\,168\,c\,t^{22}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{312\,734\,150\,t^{23}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{844\,128\,c\,t^{23}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{226\,089\,133\,t^{24}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{539\,276\,c\,t^{24}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{156\,794\,403\,t^{25}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{305\,776\,c\,t^{25}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{104\,055\,727\,t^{26}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{143\,212\,c\,t^{26}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{65\,886\,285\,t^{27}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{42\,128\,c\,t^{27}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{39\,658\,112\,t^{28}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{11\,616\,c\,t^{28}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{22\,589\,656\,t^{29}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{32\,992\,c\,t^{29}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{12\,107\,740\,t^{30}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{35\,248\,c\,t^{30}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{6\,062\,616\,t^{31}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{28\,536\,c\,t^{31}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{2\,809\,424\,t^{32}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{19\,488\,c\,t^{32}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{1\,189\,636\,t^{33}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{11\,568\,c\,t^{33}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{452\,152\,t^{34}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{5952\,c\,t^{34}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{150\,280\,t^{35}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{2576\,c\,t^{35}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}-\frac{41\,984\,t^{36}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+\frac{880\,c\,t^{36}}{(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6)^4}+$$

$$\frac{9248\,t^{37}}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{208\,c\,t^{37}}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{1428\,t^{38}}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{24\,c\,t^{38}}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{116\,t^{39}}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{17\,750\,362\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{8\,u\,w}{t^{12}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{291\,u\,w}{2\,t^{11}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{2431\,u\,w}{2\,t^{10}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{13\,169\,u\,w}{2\,t^{9}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{53\,521\,u\,w}{2\,t^{8}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{88\,427\,u\,w}{t^{7}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{249\,829\,u\,w}{t^{6}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{624\,189\,u\,w}{t^{5}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{2\,823\,237\,u\,w}{2\,t^{4}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{5\,874\,033\,u\,w}{2\,t^{3}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{11\,374\,463\,u\,w}{2\,t^{2}\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{20\,673\,867\,u\,w}{2\,t\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{28\,945\,662\,t\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{45\,010\,384\,t^2\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{133\,926\,865\,t^3\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{191\,143\,129\,t^4\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{262\,286\,731\,t^5\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{346\,669\,791\,t^6\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{221\,006\,707\,t^7\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{272\,171\,763\,t^8\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{324\,066\,697\,t^9\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{746\,719\,599\,t^{10}\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{832\,959\,987\,t^{11}\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{900\,046\,857\,t^{12}\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{942\,353\,633\,t^{13}\,u\,w}{2\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{478\,089\,920\,t^{14}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{470\,132\,544\,t^{15}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{447\,985\,874\,t^{16}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{413\,549\,198\,t^{17}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{369\,681\,182\,t^{18}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{319\,824\,606\,t^{19}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{267\,578\,886\,t^{20}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{216\,288\,768\,t^{21}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{168\,711\,938\,t^{22}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{126\,811\,034\,t^{23}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{91\,685\,166\,t^{24}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{63\,626\,890\,t^{25}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{42\,271\,684\,t^{26}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{26\,799\,712\,t^{27}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{16\,148\,692\,t^{28}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{9\,201\,780\,t^{29}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{4\,926\,478\,t^{30}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{2\,457\,488\,t^{31}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{1\,129\,214\,t^{32}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+$$
$$\frac{470\,176\,t^{33}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{173\,072\,t^{34}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{54\,200\,t^{35}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$
$$\frac{13\,560\,t^{36}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}+\frac{2412\,t^{37}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-\frac{228\,t^{38}\,u\,w}{\left(1-2t+2t^2-2t^3+2t^4-2t^5+2t^6\right)^4}-$$

$$\frac{1\,818\,168\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-\frac{7\,u^2\,w^2}{2\,t^{12}\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+$$
$$\frac{91\,u^2\,w^2}{2\,t^{11}\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-\frac{603\,u^2\,w^2}{2\,t^{10}\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+$$
$$\frac{2739\,u^2\,w^2}{2\,t^9\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-\frac{4835\,u^2\,w^2}{t^8\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+$$
$$\frac{14\,233\,u^2\,w^2}{t^7\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-\frac{36\,521\,u^2\,w^2}{t^6\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+$$
$$\frac{84\,135\,u^2\,w^2}{t^5\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-\frac{355\,035\,u^2\,w^2}{2\,t^4\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+$$
$$\frac{695\,389\,u^2\,w^2}{2\,t^3\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-\frac{1\,276\,443\,u^2\,w^2}{2\,t^2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+$$
$$\frac{2\,211\,429\,u^2\,w^2}{2\,t\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{2\,850\,262\,t\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{8\,550\,155\,t^2\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{12\,304\,903\,t^3\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{8\,515\,353\,t^4\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{11\,356\,430\,t^5\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{29\,234\,213\,t^6\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{36\,363\,235\,t^7\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{21\,878\,382\,t^8\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{25\,490\,469\,t^9\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{57\,549\,859\,t^{10}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{62\,976\,873\,t^{11}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{33\,415\,481\,t^{12}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{34\,395\,154\,t^{13}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{68\,685\,053\,t^{14}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{66\,521\,255\,t^{15}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{62\,480\,359\,t^{16}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{56\,894\,361\,t^{17}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{25\,101\,248\,t^{18}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{21\,448\,551\,t^{19}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{35\,466\,659\,t^{20}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{28\,343\,985\,t^{21}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{21\,867\,547\,t^{22}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{16\,261\,353\,t^{23}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{11\,633\,297\,t^{24}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{7\,988\,073\,t^{25}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{2\,625\,020\,t^{26}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{1\,645\,550\,t^{27}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{1\,958\,963\,t^{28}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{1\,100\,861\,t^{29}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$
$$\frac{289\,906\,t^{30}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{141\,733\,t^{31}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-\frac{63\,433\,t^{32}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+$$
$$\frac{25\,433\,t^{33}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-\frac{8814\,t^{34}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{2486\,t^{35}\,u^2\,w^2}{\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}-$$

$$\frac{1017\,t^{36}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}+\frac{113\,t^{37}\,u^2\,w^2}{2\left(1-2\,t+2\,t^2-2\,t^3+2\,t^4-2\,t^5+2\,t^6\right)^4}\Big]\Big\}$$

```
tab = %;

tab >> tab.m

tab = Get["tab.m"]

tab1 = tab[[All, 2, 2]]

tab1 // Union // Length

Length[AllKnots[{3, 10}]]

Length[Union[Alexander /@ AllKnots[{3, 10}]]]

Length[Union[Jones /@ AllKnots[{3, 10}]]]

Length[Union[HOMFLYPT /@ AllKnots[{3, 10}]]]

t_ = t;  Z[Knot["K11n34"] // Mirror]

t_ = t;  Z[Knot["K11n42"] // Mirror]

MinMax[tab[[All, 2, 1]]]

means = Table[Mean[First /@ (AllKnots[n] /. tab)], {n, 3, 10}]

Log[means]

ListPlot[Log[means]]

Fit[Log[means], {1, Log[x + 3]}, x]
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