

Pensieve header: MVA1 agrees with MVA2, and MVA2 is an excellent normalization for MultivariableAlexander!

```
In[ ]:= << KnotTheory`

Loading KnotTheory` version of February 2, 2020, 10:53:45.2097.
Read more at http://katlas.org/wiki/KnotTheory.

In[ ]:= MV1 = (MultivariableAlexander[#, Program -> "MVA1"] &);
MV2 = (MultivariableAlexander[#, Program -> "MVA2"] &);

In[ ]:= test1[L_] := (
  mv = MV1[L][t]; mv2 = First[MV2[L][t]];
  Or @@ Map[
    (mv1 = mv /. t[i_] -> t[#][[i]]]; Head[Expand[Simplify[mv2/mv1]]] != Plus) &,
    Permutations[Range[Length[Skeleton[L]]]]
  ]
);
Print[# -> test1[#] & /@ AllLinks[9];
```

KnotTheory: Loading precomputed data in PD4Links`. +

KnotTheory: Vogel's algorithm was implemented by Dan Carney in the summer of 2005 at the University of Toronto. +

KnotTheory: The multivariable Alexander program "MVA1" was written by Dan Carney at the University of Toronto in the summer of 2005. +

KnotTheory: The multivariable Alexander program "MVA2" was written by Jana Archibald at the University of Toronto in 2007-2008. +

General: Further output of KnotTheory::credits will be suppressed during this calculation. +

- Link[9, Alternating, 1] -> True
- Link[9, Alternating, 2] -> True
- Link[9, Alternating, 3] -> True
- Link[9, Alternating, 4] -> True
- Link[9, Alternating, 5] -> True
- Link[9, Alternating, 6] -> True
- Link[9, Alternating, 7] -> True
- Link[9, Alternating, 8] -> True
- Link[9, Alternating, 9] -> True
- Link[9, Alternating, 10] -> True
- Link[9, Alternating, 11] -> True
- Link[9, Alternating, 12] -> True
- Link[9, Alternating, 13] -> True
- Link[9, Alternating, 14] -> True
- Link[9, Alternating, 15] -> True

Link [9, Alternating, 16] → True
Link [9, Alternating, 17] → True
Link [9, Alternating, 18] → True
Link [9, Alternating, 19] → True
Link [9, Alternating, 20] → True
Link [9, Alternating, 21] → True
Link [9, Alternating, 22] → True
Link [9, Alternating, 23] → True
Link [9, Alternating, 24] → True
Link [9, Alternating, 25] → True
Link [9, Alternating, 26] → True
Link [9, Alternating, 27] → True
Link [9, Alternating, 28] → True
Link [9, Alternating, 29] → True
Link [9, Alternating, 30] → True
Link [9, Alternating, 31] → True
Link [9, Alternating, 32] → True
Link [9, Alternating, 33] → True
Link [9, Alternating, 34] → True
Link [9, Alternating, 35] → True
Link [9, Alternating, 36] → True
Link [9, Alternating, 37] → True
Link [9, Alternating, 38] → True
Link [9, Alternating, 39] → True
Link [9, Alternating, 40] → True
Link [9, Alternating, 41] → True
Link [9, Alternating, 42] → True
Link [9, Alternating, 43] → True
Link [9, Alternating, 44] → True
Link [9, Alternating, 45] → True
Link [9, Alternating, 46] → True
Link [9, Alternating, 47] → True
Link [9, Alternating, 48] → True
Link [9, Alternating, 49] → True
Link [9, Alternating, 50] → True
Link [9, Alternating, 51] → True

Link [9, Alternating, 52] → True
 Link [9, Alternating, 53] → True
 Link [9, Alternating, 54] → True
 Link [9, Alternating, 55] → True
 Link [9, NonAlternating, 1] → True
 Link [9, NonAlternating, 2] → True
 Link [9, NonAlternating, 3] → True
 Link [9, NonAlternating, 4] → True
 Link [9, NonAlternating, 5] → True
 Link [9, NonAlternating, 6] → True
 Link [9, NonAlternating, 7] → True
 Link [9, NonAlternating, 8] → True
 Link [9, NonAlternating, 9] → True
 Link [9, NonAlternating, 10] → True
 Link [9, NonAlternating, 11] → True
 Link [9, NonAlternating, 12] → True
 Link [9, NonAlternating, 13] → True
 Link [9, NonAlternating, 14] → True
 Link [9, NonAlternating, 15] → True
 Link [9, NonAlternating, 16] → True
 Link [9, NonAlternating, 17] → True
 Link [9, NonAlternating, 18] → True
 Link [9, NonAlternating, 19] → True
 Link [9, NonAlternating, 20] → True
 Link [9, NonAlternating, 21] → True
 Link [9, NonAlternating, 22] → True
 Link [9, NonAlternating, 23] → True
 Link [9, NonAlternating, 24] → True
 Link [9, NonAlternating, 25] → True
 Link [9, NonAlternating, 26] → True

First: Nonatomic expression expected at position 1 in First[0].



Power: Infinite expression $\frac{1}{0}$ encountered.



Power: Infinite expression $\frac{1}{0}$ encountered.



Power: Infinite expression $\frac{1}{0}$ encountered.



General: Further output of Power::info will be suppressed during this calculation. +

Link[9, NonAlternating, 27] → True

Link[9, NonAlternating, 28] → True

In[]:= {MV1[Link[9, NonAlternating, 27]][t], MV2[Link[9, NonAlternating, 27]][t]}

Out[]:= {0, 0}

In[]:= Flip[X[i_, j_, k_, l_]] := If[l == j + 1 || j - l > 1, X[j, k, l, i], X[l, i, j, k]];
 VCube[pd_, l_List] := Module[
 {f},
 Expand[pd * Times @@ ((1 - f[#]) & /@ l)] /. pd1_PD * f[i_] := MapAt[Flip, pd1, i]
]

In[]:= Series[VCube[PD[#], {1, 2, 7}] /. pd_PD => Jones[pd][E^x], {x, 0, 3}] & /@ AllLinks[8]

Out[]:= {-9 x³ + 0[x]⁴, -12 x³ + 0[x]⁴, 12 x³ + 0[x]⁴, -12 x³ + 0[x]⁴, 12 x³ + 0[x]⁴, 12 x³ + 0[x]⁴,
 3 x³ + 0[x]⁴, -15 x³ + 0[x]⁴, 0[x]⁴, 12 x³ + 0[x]⁴, 15 x³ + 0[x]⁴, 12 x³ + 0[x]⁴,
 12 x³ + 0[x]⁴, 15 x³ + 0[x]⁴, -18 x³ + 0[x]⁴, -18 x³ + 0[x]⁴, -18 x³ + 0[x]⁴, 18 x³ + 0[x]⁴,
 18 x³ + 0[x]⁴, -24 x³ + 0[x]⁴, 36 x³ + 0[x]⁴, 9 x³ + 0[x]⁴, 9 x³ + 0[x]⁴, -18 x³ + 0[x]⁴,
 -18 x³ + 0[x]⁴, -18 x³ + 0[x]⁴, -24 x³ + 0[x]⁴, -36 x³ + 0[x]⁴, -36 x³ + 0[x]⁴}

In[]:= Print[# -> Series[VCube[PD[#], {1, 2, 7}] /. pd_PD => MV2[pd][t] /. t[i_] -> E^(hx[i]),
 {h, 0, 2}] & /@ AllLinks[8];

$$\begin{aligned}
\text{Link}[8, \text{Alternating}, 1] &\rightarrow -x[2]^2 h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 2] &\rightarrow \frac{1}{4} (x[1]^2 - 2x[1]x[2] + x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 3] &\rightarrow \frac{1}{4} (-x[1]^2 + 2x[1]x[2] - x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 4] &\rightarrow \frac{1}{4} (x[1]^2 - 2x[1]x[2] + x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 5] &\rightarrow \frac{1}{4} (-x[1]^2 + 2x[1]x[2] - x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 6] &\rightarrow \frac{1}{4} (-x[1]^2 + 2x[1]x[2] - x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 7] &\rightarrow -x[1]x[2] h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 8] &\rightarrow \frac{1}{4} (x[1]^2 + 2x[1]x[2] + x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 9] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 10] &\rightarrow \frac{1}{4} (-x[1]^2 + 2x[1]x[2] - x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 11] &\rightarrow \frac{1}{4} (-x[1]^2 - 2x[1]x[2] - x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 12] &\rightarrow \frac{1}{4} (-x[1]^2 + 2x[1]x[2] - x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 13] &\rightarrow \frac{1}{4} (-x[1]^2 + 2x[1]x[2] - x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 14] &\rightarrow \frac{1}{4} (-x[1]^2 - 2x[1]x[2] - x[2]^2) h^2 + 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 15] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 16] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 17] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 18] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 19] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 20] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{Alternating}, 21] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{NonAlternating}, 1] &\rightarrow x[2]^2 h^2 + 0[h]^3 \\
\text{Link}[8, \text{NonAlternating}, 2] &\rightarrow x[2]^2 h^2 + 0[h]^3 \\
\text{Link}[8, \text{NonAlternating}, 3] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{NonAlternating}, 4] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{NonAlternating}, 5] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{NonAlternating}, 6] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{NonAlternating}, 7] &\rightarrow 0[h]^3 \\
\text{Link}[8, \text{NonAlternating}, 8] &\rightarrow 0[h]^3
\end{aligned}$$

```
In[ ]:= Print[# -> Series[VCube[PD[#], {1, 2, 7}] /. pd_PD -> MV2[pd][t] /. t[i_] -> E^(hx[i]),
  {h, 0, 2}]] & /@AllLinks[9];
```

$$\text{Link}[9, \text{Alternating}, 1] \rightarrow x[2]^2 h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 2] \rightarrow x[2]^2 h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 3] \rightarrow 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 4] \rightarrow -x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 5] \rightarrow x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 6] \rightarrow 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 7] \rightarrow 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 8] \rightarrow -x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 9] \rightarrow x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 10] \rightarrow 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 11] \rightarrow x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 12] \rightarrow -x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 13] \rightarrow -x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 14] \rightarrow -x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 15] \rightarrow -x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 16] \rightarrow -x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 17] \rightarrow -x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 18] \rightarrow -x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 19] \rightarrow 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 20] \rightarrow x[2]^2 h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 21] \rightarrow 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 22] \rightarrow 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 23] \rightarrow 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 24] \rightarrow \frac{1}{4} (x[1]^2 + 2 x[1] x[2] + x[2]^2) h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 25] \rightarrow \frac{1}{4} (x[1]^2 + 2 x[1] x[2] + x[2]^2) h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 26] \rightarrow \frac{1}{4} (x[1]^2 - 2 x[1] x[2] + x[2]^2) h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 27] \rightarrow \frac{1}{4} (-x[1]^2 - 2 x[1] x[2] - x[2]^2) h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 28] \rightarrow 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 29] \rightarrow \frac{1}{4} (x[1]^2 + 2 x[1] x[2] + x[2]^2) h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 30] \rightarrow \frac{1}{4} (x[1]^2 + 2 x[1] x[2] + x[2]^2) h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 31] \rightarrow x[1] x[2] h^2 + 0[h]^3$$

$$\text{Link}[9, \text{Alternating}, 32] \rightarrow \frac{1}{4} (-x[1]^2 + 2x[1]x[2] - x[2]^2) h^2 + O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 33] \rightarrow \frac{1}{4} (-x[1]^2 + 2x[1]x[2] - x[2]^2) h^2 + O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 34] \rightarrow \frac{1}{4} (x[1]^2 + 2x[1]x[2] + x[2]^2) h^2 + O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 35] \rightarrow \frac{1}{4} (x[1]^2 + 2x[1]x[2] + x[2]^2) h^2 + O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 36] \rightarrow \frac{1}{4} (-x[1]^2 - 2x[1]x[2] - x[2]^2) h^2 + O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 37] \rightarrow \frac{1}{4} (-x[1]^2 - 2x[1]x[2] - x[2]^2) h^2 + O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 38] \rightarrow \frac{1}{4} (x[1]^2 + 2x[1]x[2] + x[2]^2) h^2 + O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 39] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 40] \rightarrow \frac{1}{4} (x[1]^2 + 2x[1]x[2] + x[2]^2) h^2 + O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 41] \rightarrow \frac{1}{4} (x[1]^2 + 2x[1]x[2] + x[2]^2) h^2 + O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 42] \rightarrow \frac{1}{4} (-x[1]^2 - 2x[1]x[2] - x[2]^2) h^2 + O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 43] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 44] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 45] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 46] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 47] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 48] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 49] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 50] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 51] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 52] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 53] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 54] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{Alternating}, 55] \rightarrow O[h]^3$$

$$\text{Link}[9, \text{NonAlternating}, 1] \rightarrow -x[2]^2 h^2 + O[h]^3$$

$$\text{Link}[9, \text{NonAlternating}, 2] \rightarrow -x[2]^2 h^2 + O[h]^3$$

$$\text{Link}[9, \text{NonAlternating}, 3] \rightarrow -x[2]^2 h^2 + O[h]^3$$

$$\text{Link}[9, \text{NonAlternating}, 4] \rightarrow -x[2]^2 h^2 + O[h]^3$$

$$\text{Link}[9, \text{NonAlternating}, 5] \rightarrow -x[2]^2 h^2 + O[h]^3$$

$$\text{Link}[9, \text{NonAlternating}, 6] \rightarrow -x[2]^2 h^2 + O[h]^3$$

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Link[9, NonAlternating, 7] → 0[h]^3
Link[9, NonAlternating, 8] → 0[h]^3
Link[9, NonAlternating, 9] → -x[1] x[2] h^2 + 0[h]^3
Link[9, NonAlternating, 10] → -x[1] x[2] h^2 + 0[h]^3
Link[9, NonAlternating, 11] → x[1] x[2] h^2 + 0[h]^3
Link[9, NonAlternating, 12] → 0[h]^3
Link[9, NonAlternating, 13] → x[2]^2 h^2 + 0[h]^3
Link[9, NonAlternating, 14] → -x[2]^2 h^2 + 0[h]^3
Link[9, NonAlternating, 15] → -x[2]^2 h^2 + 0[h]^3
Link[9, NonAlternating, 16] → -x[2]^2 h^2 + 0[h]^3
Link[9, NonAlternating, 17] → 0[h]^3
Link[9, NonAlternating, 18] → 1/4 (-x[1]^2 - 2 x[1] x[2] - x[2]^2) h^2 + 0[h]^3
Link[9, NonAlternating, 19] → 1/4 (-x[1]^2 - 2 x[1] x[2] - x[2]^2) h^2 + 0[h]^3
Link[9, NonAlternating, 20] → 0[h]^3
Link[9, NonAlternating, 21] → 0[h]^3
Link[9, NonAlternating, 22] → 0[h]^3
Link[9, NonAlternating, 23] → 0[h]^3
Link[9, NonAlternating, 24] → 0[h]^3
Link[9, NonAlternating, 25] → 0[h]^3
Link[9, NonAlternating, 26] → 0[h]^3
Link[9, NonAlternating, 27] → 0[h]^3
Link[9, NonAlternating, 28] → 0[h]^3

```

```

In[ ]:= Print[# → Series[VCube[PD[#, {1, 2, 7, 8}] /. pd_PD → MV2[pd][t] /.
  t[i_] → E^(hx[i]), {h, 0, 2}]] & /@AllLinks[9];

```

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Link[9, Alternating, 1] → 0[h]^3
Link[9, Alternating, 2] → 0[h]^3
Link[9, Alternating, 3] → 0[h]^3
Link[9, Alternating, 4] → 0[h]^3
Link[9, Alternating, 5] → 0[h]^3
Link[9, Alternating, 6] → 0[h]^3
Link[9, Alternating, 7] → 0[h]^3
Link[9, Alternating, 8] → 0[h]^3
Link[9, Alternating, 9] → 0[h]^3
Link[9, Alternating, 10] → 0
Link[9, Alternating, 11] → 0[h]^3

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Link [9, Alternating, 12] $\rightarrow 0[h]^3$
Link [9, Alternating, 13] $\rightarrow 0[h]^3$
Link [9, Alternating, 14] $\rightarrow 0[h]^3$
Link [9, Alternating, 15] $\rightarrow 0[h]^3$
Link [9, Alternating, 16] $\rightarrow 0[h]^3$
Link [9, Alternating, 17] $\rightarrow 0[h]^3$
Link [9, Alternating, 18] $\rightarrow 0[h]^3$
Link [9, Alternating, 19] $\rightarrow 0[h]^3$
Link [9, Alternating, 20] $\rightarrow 0[h]^3$
Link [9, Alternating, 21] $\rightarrow 0[h]^3$
Link [9, Alternating, 22] $\rightarrow 0[h]^3$
Link [9, Alternating, 23] $\rightarrow 0[h]^3$
Link [9, Alternating, 24] $\rightarrow 0[h]^3$
Link [9, Alternating, 25] $\rightarrow 0[h]^3$
Link [9, Alternating, 26] $\rightarrow 0[h]^3$
Link [9, Alternating, 27] $\rightarrow 0[h]^3$
Link [9, Alternating, 28] $\rightarrow 0[h]^3$
Link [9, Alternating, 29] $\rightarrow 0[h]^3$
Link [9, Alternating, 30] $\rightarrow 0[h]^3$
Link [9, Alternating, 31] $\rightarrow 0[h]^3$
Link [9, Alternating, 32] $\rightarrow 0[h]^3$
Link [9, Alternating, 33] $\rightarrow 0[h]^3$
Link [9, Alternating, 34] $\rightarrow 0[h]^3$
Link [9, Alternating, 35] $\rightarrow 0[h]^3$
Link [9, Alternating, 36] $\rightarrow 0[h]^3$
Link [9, Alternating, 37] $\rightarrow 0[h]^3$
Link [9, Alternating, 38] $\rightarrow 0[h]^3$
Link [9, Alternating, 39] $\rightarrow 0[h]^3$
Link [9, Alternating, 40] $\rightarrow 0[h]^3$
Link [9, Alternating, 41] $\rightarrow 0[h]^3$
Link [9, Alternating, 42] $\rightarrow 0[h]^3$
Link [9, Alternating, 43] $\rightarrow 0[h]^3$
Link [9, Alternating, 44] $\rightarrow 0[h]^3$
Link [9, Alternating, 45] $\rightarrow 0[h]^3$
Link [9, Alternating, 46] $\rightarrow 0[h]^3$
Link [9, Alternating, 47] $\rightarrow 0[h]^3$

Link [9, Alternating, 48] $\rightarrow 0[h]^3$
Link [9, Alternating, 49] $\rightarrow 0[h]^3$
Link [9, Alternating, 50] $\rightarrow 0[h]^3$
Link [9, Alternating, 51] $\rightarrow 0[h]^3$
Link [9, Alternating, 52] $\rightarrow 0[h]^3$
Link [9, Alternating, 53] $\rightarrow 0[h]^3$
Link [9, Alternating, 54] $\rightarrow 0[h]^3$
Link [9, Alternating, 55] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 1] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 2] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 3] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 4] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 5] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 6] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 7] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 8] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 9] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 10] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 11] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 12] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 13] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 14] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 15] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 16] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 17] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 18] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 19] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 20] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 21] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 22] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 23] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 24] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 25] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 26] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 27] $\rightarrow 0[h]^3$
Link [9, NonAlternating, 28] $\rightarrow 0[h]^3$

```
In[6]:= Print[# -> Series[VCube[PD[#], {1, 2, 5, 7, 9}] /. pd_PD -> MV2[pd][t] /.
      t[i_] -> E^(hx[i]), {h, 0, 3}]] & /@AllLinks[11];
```

Link[11, Alternating, 1] -> 0[h]⁴

Link[11, Alternating, 2] -> 0[h]⁴

Link[11, Alternating, 3] -> 0[h]⁴

Link[11, Alternating, 4] -> 0[h]⁴

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