Loading older invariants

(Alt) In[ ]:=
```
SetDirectory["C:\\drorbn\\AcademicPensieve\\Talks\\KnotTheoryCongress-2502"]
```

(Alt) Out[ ]=
```
C:\drorbn\AcademicPensieve\Talks\KnotTheoryCongress-2502
```

(Alt) In[ ]:=
```
θs = Get["../../Projects/HigherRank/Data/theta3-15.m"]
```

(Alt) Out[ ]=

(Alt) In[ ]:=
```
Length[θs]
```

(Alt) Out[ ]=
```
313 230
```

(Alt) In[ ]:=
```
Length[Hs = Get["../../Projects/HigherRank/Data/HOMFLYPT3-15.m"]]
```

(Alt) Out[ ]=
```
313 230
```

(Alt) In[ ]:=
```
Length[Khs = Get["../../Projects/HigherRank/Data/Kh3-15.m"]]
```

(Alt) Out[ ]=
```
313 230
```

(Alt) In[ ]:=
```
HKhs = MapThread[(#1[[1]] → Expand@{#1[[2]], #2[[2]]}) &, {Hs, Khs}]
```

(Alt) Out[ ]=

(Alt) In[ ]:=
```
HKhθs = MapThread[(#1[[1]] → Expand@{#1[[2]], #2[[2]]}) &, {HKhs, θs}]
```

(Alt) Out[ ]=

Loading ρ_2

(Alt) In[ ]:=
```
ρ2s = Join @@ (Get["Rho2Data/" <> #] & /@
     {"Rho2_3-10.m", "Rho2_11.m", "Rho2_12.m", "Rho2_13.m", "Rho2_14.m", "Rho2_15.m"})
```

(Alt) Out[ ]=

(Alt) In[ ]:=
```
Length[ρ2s]
```

(Alt) Out[ ]=
```
313 230
```

(Alt) In[•]:=
```
θρ2s = MapThread[(#1⟦1⟧ → Expand@{#1⟦2⟧, #2⟦2⟧}) &, {Take[θs, Length[ρ2s]], ρ2s}]
```
(Alt) Out[•]=

(Alt) In[•]:=
```
HKhθρ2s = MapThread[(#1⟦1⟧ → Expand@{#1⟦2⟧, #2⟦2⟧}) &, {Take[HKhs, Length@θρ2s], θρ2s}]
```
(Alt) Out[•]=

Stats

(Alt) In[•]:=
```
Stats[n_] := Module[{a, b},
  {"Knots", a = Length@Select[θs, #⟦1, 1⟧ ≤ n &],
   "(H,Kh)", b = Length@Union@Expand[Last /@ Select[HKhs, #⟦1, 1⟧ ≤ n &]], b - a,
   "(Δ,ρ1)", b = Length@Union@Expand[Last /@ Select[θs, #⟦1, 1⟧ ≤ n &] /. T2 → 1], b - a,
   "(Δ,θ)", b = Length@Union@Expand[Last /@ Select[θs, #⟦1, 1⟧ ≤ n &]], b - a,
   "(Δ,θ,ρ2)", b = Length@Union@Expand[Last /@ Select[θρ2s, #⟦1, 1⟧ ≤ n &]], b - a,
   "(H,Kh,θ)", b = Length@Union@Expand[Last /@ Select[HKhθs, #⟦1, 1⟧ ≤ n &]], b - a,
   "(H,Kh,θ,ρ2)", b = Length@Union@Expand[Last /@ Select[HKhθρ2s, #⟦1, 1⟧ ≤ n &]], b - a
  }]
```

(Alt) In[•]:=
```
Stats[10]
```
(Alt) Out[•]=
```
{Knots, 249, (H,Kh), 248, -1, (Δ,ρ1), 249, 0, (Δ,θ),
 249, 0, (Δ,θ,ρ2), 249, 0, (H,Kh,θ), 249, 0, (H,Kh,θ,ρ2), 249, 0}
```

(Alt) In[•]:=
```
Stats[11]
```
(Alt) Out[•]=
```
{Knots, 801, (H,Kh), 771, -30, (Δ,ρ1), 787, -14, (Δ,θ), 798,
 -3, (Δ,θ,ρ2), 798, -3, (H,Kh,θ), 798, -3, (H,Kh,θ,ρ2), 798, -3}
```

(Alt) In[•]:=
```
Stats[12]
```
(Alt) Out[•]=
```
{Knots, 2977, (H,Kh), 2763, -214, (Δ,ρ1), 2882, -95, (Δ,θ), 2958,
 -19, (Δ,θ,ρ2), 2967, -10, (H,Kh,θ), 2959, -18, (H,Kh,θ,ρ2), 2967, -10}
```

(Alt) In[•]:=
```
Stats[13]
```
(Alt) Out[•]=
```
{Knots, 12965, (H,Kh), 11194, -1771, (Δ,ρ1), 12006, -959, (Δ,θ), 12771, -194,
 (Δ,θ,ρ2), 12796, -169, (H,Kh,θ), 12780, -185, (H,Kh,θ,ρ2), 12796, -169}
```

(Alt) In[•]:=
```
Stats[14]
```
(Alt) Out[•]=
```
{Knots, 59 937, (H,Kh), 49 149, -10 788, (△,ρ1), 53 684, -6253, (△,Θ), 58 819, -1118,
  (△,Θ,ρ2), 58 955, -982, (H,Kh,Θ), 58 875, -1062, (H,Kh,Θ,ρ2), 58 956, -981}
```

(Alt) In[•]:=
```
Stats[15]
```
(Alt) Out[•]=
```
{Knots, 313 230, (H,Kh), 242 985, -70 245, (△,ρ1), 270 316, -42 914, (△,Θ), 306 472, -6758,
  (△,Θ,ρ2), 306 889, -6341, (H,Kh,Θ), 306 675, -6555, (H,Kh,Θ,ρ2), 306 893, -6337}
```