

Pensieve header: Setting up the knot table.

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In[ ]:= << KnotTheory`
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... ParentDirectory: Argument File should be a positive machine-size integer, a nonempty string, or a File specification.
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... ParentDirectory: Argument File should be a positive machine-size integer, a nonempty string, or a File specification.
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... ToFileName: String or list of strings expected at position 1 in ToFileName[{File, WikiLink, mathematica}].
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... ToFileName: String or list of strings expected at position 1 in ToFileName[{File, QuantumGroups}].
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Loading KnotTheory` version of January 20, 2015, 10:42:19.1122.

Read more at <http://katlas.org/wiki/KnotTheory>.

```
In[ ]:= Knots = ( (# -> PD[#]) & /@ AllKnots [ {3, 10} ] ) ~Join~ {GST48 -> PD[
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X[01, 15, 02, 14], X[29, 02, 30, 03],
X[40, 04, 41, 03], X[04, 44, 05, 43], X[05, 26, 06, 27],
X[95, 07, 96, 06], X[07, 01, 08, 96], X[08, 14, 09, 13],
X[28, 09, 29, 10], X[41, 11, 42, 10],
X[11, 43, 12, 42], X[12, 27, 13, 28], X[15, 31, 16, 30],
X[61, 16, 62, 17], X[72, 17, 73, 18],
X[83, 18, 84, 19], X[34, 20, 35, 19], X[20, 89, 21, 90],
X[92, 21, 93, 22], X[22, 79, 23, 80],
X[23, 68, 24, 69], X[24, 57, 25, 58], X[56, 25, 57, 26],
X[31, 63, 32, 62], X[32, 74, 33, 73],
X[33, 85, 34, 84], X[35, 50, 36, 51], X[81, 37, 82, 36],
X[70, 38, 71, 37], X[59, 39, 60, 38],
X[54, 39, 55, 40], X[55, 45, 56, 44], X[45, 59, 46, 58],
X[46, 70, 47, 69], X[47, 81, 48, 80],
X[91, 49, 92, 48], X[49, 91, 50, 90], X[82, 52, 83, 51],
X[71, 53, 72, 52], X[60, 54, 61, 53],
X[74, 63, 75, 64], X[85, 64, 86, 65], X[65, 76, 66, 77],
X[66, 87, 67, 88], X[94, 67, 95, 68],
X[86, 75, 87, 76], X[77, 88, 78, 89], X[93, 78, 94, 79] ] }
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Out[ ]:= {Knot[3, 1] -> PD[X[1, 4, 2, 5], X[3, 6, 4, 1], X[5, 2, 6, 3]],
Knot[4, 1] -> PD[X[4, 2, 5, 1], X[8, 6, 1, 5], X[6, 3, 7, 4], X[2, 7, 3, 8]],
Knot[5, 1] -> PD[X[1, 6, 2, 7], X[3, 8, 4, 9], X[5, 10, 6, 1], X[7, 2, 8, 3], X[9, 4, 10, 5]],
Knot[5, 2] -> PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 10, 6, 1], X[9, 6, 10, 7], X[7, 2, 8, 3]],
Knot[6, 1] -> PD[X[1, 4, 2, 5], X[7, 10, 8, 11],
X[3, 9, 4, 8], X[9, 3, 10, 2], X[5, 12, 6, 1], X[11, 6, 12, 7]],
Knot[6, 2] -> PD[X[1, 4, 2, 5], X[5, 10, 6, 11], X[3, 9, 4, 8], X[9, 3, 10, 2],
X[7, 12, 8, 1], X[11, 6, 12, 7]], Knot[6, 3] -> PD[X[4, 2, 5, 1], X[8, 4, 9, 3],
X[12, 9, 1, 10], X[10, 5, 11, 6], X[6, 11, 7, 12], X[2, 8, 3, 7]],
Knot[7, 1] -> PD[X[1, 8, 2, 9], X[3, 10, 4, 11], X[5, 12, 6, 13],
X[7, 14, 8, 1], X[9, 2, 10, 3], X[11, 4, 12, 5], X[13, 6, 14, 7]],
Knot[7, 2] -> PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[5, 14, 6, 1],
X[7, 12, 8, 13], X[11, 8, 12, 9], X[13, 6, 14, 7], X[9, 2, 10, 3]],
Knot[7, 3] -> PD[X[6, 2, 7, 1], X[10, 4, 11, 3], X[14, 8, 1, 7],
X[8, 14, 9, 13], X[12, 6, 13, 5], X[2, 10, 3, 9], X[4, 12, 5, 11]],
Knot[7, 4] -> PD[X[6, 2, 7, 1], X[12, 6, 13, 5], X[14, 8, 1, 7],
X[8, 14, 9, 13], X[2, 12, 3, 11], X[10, 4, 11, 3], X[4, 10, 5, 9]],
Knot[7, 5] -> PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[5, 12, 6, 13],
X[7, 14, 8, 1], X[13, 6, 14, 7], X[11, 8, 12, 9], X[9, 2, 10, 3]],
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Knot [7, 6]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 12, 6, 13],  
 X[9, 1, 10, 14], X[13, 11, 14, 10], X[11, 6, 12, 7], X[7, 2, 8, 3]],  
 Knot [7, 7]  $\rightarrow$  PD[X[1, 4, 2, 5], X[5, 10, 6, 11], X[3, 9, 4, 8], X[9, 3, 10, 2],  
 X[11, 14, 12, 1], X[7, 13, 8, 12], X[13, 7, 14, 6]],  
 Knot [8, 1]  $\rightarrow$  PD[X[1, 4, 2, 5], X[9, 12, 10, 13], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 X[5, 16, 6, 1], X[7, 14, 8, 15], X[13, 8, 14, 9], X[15, 6, 16, 7]],  
 Knot [8, 2]  $\rightarrow$  PD[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 X[7, 14, 8, 15], X[9, 16, 10, 1], X[13, 6, 14, 7], X[15, 8, 16, 9]],  
 Knot [8, 3]  $\rightarrow$  PD[X[6, 2, 7, 1], X[14, 10, 15, 9], X[10, 5, 11, 6], X[12, 3, 13, 4],  
 X[4, 11, 5, 12], X[2, 13, 3, 14], X[16, 8, 1, 7], X[8, 16, 9, 15]],  
 Knot [8, 4]  $\rightarrow$  PD[X[6, 2, 7, 1], X[14, 10, 15, 9], X[10, 3, 11, 4], X[2, 13, 3, 14],  
 X[12, 5, 13, 6], X[16, 8, 1, 7], X[4, 11, 5, 12], X[8, 16, 9, 15]],  
 Knot [8, 5]  $\rightarrow$  PD[X[6, 2, 7, 1], X[8, 4, 9, 3], X[2, 8, 3, 7], X[14, 10, 15, 9],  
 X[12, 5, 13, 6], X[4, 13, 5, 14], X[16, 12, 1, 11], X[10, 16, 11, 15]],  
 Knot [8, 6]  $\rightarrow$  PD[X[1, 4, 2, 5], X[9, 12, 10, 13], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 X[5, 14, 6, 15], X[7, 16, 8, 1], X[15, 6, 16, 7], X[13, 8, 14, 9]],  
 Knot [8, 7]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[11, 1, 12, 16], X[5, 13, 6, 12],  
 X[7, 15, 8, 14], X[13, 7, 14, 6], X[15, 9, 16, 8], X[9, 2, 10, 3]],  
 Knot [8, 8]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[11, 15, 12, 14], X[5, 13, 6, 12],  
 X[13, 7, 14, 6], X[9, 1, 10, 16], X[15, 11, 16, 10], X[7, 2, 8, 3]],  
 Knot [8, 9]  $\rightarrow$  PD[X[6, 2, 7, 1], X[14, 8, 15, 7], X[10, 3, 11, 4], X[2, 13, 3, 14],  
 X[12, 5, 13, 6], X[4, 11, 5, 12], X[16, 10, 1, 9], X[8, 16, 9, 15]],  
 Knot [8, 10]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[9, 15, 10, 14], X[5, 13, 6, 12],  
 X[13, 7, 14, 6], X[11, 1, 12, 16], X[15, 11, 16, 10], X[7, 2, 8, 3]],  
 Knot [8, 11]  $\rightarrow$  PD[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 X[9, 16, 10, 1], X[15, 6, 16, 7], X[7, 14, 8, 15], X[13, 8, 14, 9]],  
 Knot [8, 12]  $\rightarrow$  PD[X[4, 2, 5, 1], X[10, 8, 11, 7], X[8, 3, 9, 4], X[2, 9, 3, 10],  
 X[14, 6, 15, 5], X[16, 11, 1, 12], X[12, 15, 13, 16], X[6, 14, 7, 13]],  
 Knot [8, 13]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[11, 1, 12, 16], X[5, 13, 6, 12],  
 X[15, 7, 16, 6], X[7, 15, 8, 14], X[13, 9, 14, 8], X[9, 2, 10, 3]],  
 Knot [8, 14]  $\rightarrow$  PD[X[1, 4, 2, 5], X[5, 10, 6, 11], X[3, 9, 4, 8], X[9, 3, 10, 2],  
 X[7, 14, 8, 15], X[11, 16, 12, 1], X[15, 12, 16, 13], X[13, 6, 14, 7]],  
 Knot [8, 15]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 12, 6, 13], X[13, 16, 14, 1],  
 X[9, 14, 10, 15], X[15, 10, 16, 11], X[11, 6, 12, 7], X[7, 2, 8, 3]],  
 Knot [8, 16]  $\rightarrow$  PD[X[6, 2, 7, 1], X[14, 6, 15, 5], X[16, 11, 1, 12], X[12, 7, 13, 8],  
 X[8, 3, 9, 4], X[4, 9, 5, 10], X[10, 15, 11, 16], X[2, 14, 3, 13]],  
 Knot [8, 17]  $\rightarrow$  PD[X[6, 2, 7, 1], X[14, 8, 15, 7], X[8, 3, 9, 4], X[2, 13, 3, 14],  
 X[12, 5, 13, 6], X[4, 9, 5, 10], X[16, 12, 1, 11], X[10, 16, 11, 15]],  
 Knot [8, 18]  $\rightarrow$  PD[X[6, 2, 7, 1], X[8, 3, 9, 4], X[16, 11, 1, 12], X[2, 14, 3, 13],  
 X[4, 15, 5, 16], X[10, 6, 11, 5], X[12, 7, 13, 8], X[14, 10, 15, 9]],  
 Knot [8, 19]  $\rightarrow$  PD[X[4, 2, 5, 1], X[8, 4, 9, 3], X[9, 15, 10, 14], X[5, 13, 6, 12],  
 X[13, 7, 14, 6], X[11, 1, 12, 16], X[15, 11, 16, 10], X[2, 8, 3, 7]],  
 Knot [8, 20]  $\rightarrow$  PD[X[4, 2, 5, 1], X[8, 4, 9, 3], X[5, 12, 6, 13], X[13, 16, 14, 1],  
 X[9, 14, 10, 15], X[15, 10, 16, 11], X[11, 6, 12, 7], X[2, 8, 3, 7]],  
 Knot [8, 21]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[12, 6, 13, 5], X[13, 16, 14, 1],  
 X[9, 14, 10, 15], X[15, 10, 16, 11], X[6, 12, 7, 11], X[7, 2, 8, 3]],  
 Knot [9, 1]  $\rightarrow$  PD[X[1, 10, 2, 11], X[3, 12, 4, 13], X[5, 14, 6, 15], X[7, 16, 8, 17],  
 X[9, 18, 10, 1], X[11, 2, 12, 3], X[13, 4, 14, 5], X[15, 6, 16, 7], X[17, 8, 18, 9]],  
 Knot [9, 2]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[5, 18, 6, 1], X[7, 16, 8, 17],  
 X[9, 14, 10, 15], X[13, 10, 14, 11], X[15, 8, 16, 9], X[17, 6, 18, 7], X[11, 2, 12, 3]],  
 Knot [9, 3]  $\rightarrow$  PD[X[8, 2, 9, 1], X[12, 4, 13, 3], X[18, 10, 1, 9], X[10, 18, 11, 17],

$X[14, 6, 15, 5], X[16, 8, 17, 7], X[2, 12, 3, 11], X[4, 14, 5, 13], X[6, 16, 7, 15]]$ ,  
 Knot[9, 4] → PD[X[1, 6, 2, 7], X[3, 12, 4, 13], X[7, 18, 8, 1], X[9, 16, 10, 17],  
 $X[15, 10, 16, 11], X[17, 8, 18, 9], X[5, 14, 6, 15], X[11, 2, 12, 3], X[13, 4, 14, 5]]$ ,  
 Knot[9, 5] → PD[X[6, 2, 7, 1], X[14, 6, 15, 5], X[18, 8, 1, 7], X[16, 10, 17, 9],  
 $X[10, 16, 11, 15], X[8, 18, 9, 17], X[2, 14, 3, 13], X[12, 4, 13, 3], X[4, 12, 5, 11]]$ ,  
 Knot[9, 6] → PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[5, 14, 6, 15], X[7, 16, 8, 17],  
 $X[9, 18, 10, 1], X[15, 6, 16, 7], X[17, 8, 18, 9], X[13, 10, 14, 11], X[11, 2, 12, 3]]$ ,  
 Knot[9, 7] → PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[5, 16, 6, 17], X[7, 18, 8, 1],  
 $X[17, 6, 18, 7], X[9, 14, 10, 15], X[13, 10, 14, 11], X[15, 8, 16, 9], X[11, 2, 12, 3]]$ ,  
 Knot[9, 8] → PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 14, 6, 15], X[9, 1, 10, 18],  
 $X[11, 17, 12, 16], X[15, 13, 16, 12], X[17, 11, 18, 10], X[13, 6, 14, 7], X[7, 2, 8, 3]]$ ,  
 Knot[9, 9] → PD[X[1, 6, 2, 7], X[3, 12, 4, 13], X[7, 16, 8, 17], X[9, 18, 10, 1],  
 $X[17, 8, 18, 9], X[15, 10, 16, 11], X[5, 14, 6, 15], X[11, 2, 12, 3], X[13, 4, 14, 5]]$ ,  
 Knot[9, 10] → PD[X[8, 2, 9, 1], X[12, 4, 13, 3], X[18, 10, 1, 9], X[10, 18, 11, 17],  
 $X[16, 8, 17, 7], X[2, 12, 3, 11], X[4, 16, 5, 15], X[14, 6, 15, 5], X[6, 14, 7, 13]]$ ,  
 Knot[9, 11] → PD[X[1, 4, 2, 5], X[9, 12, 10, 13], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 $X[13, 1, 14, 18], X[5, 15, 6, 14], X[7, 17, 8, 16], X[15, 7, 16, 6], X[17, 9, 18, 8]]$ ,  
 Knot[9, 12] → PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[5, 16, 6, 17], X[11, 1, 12, 18],  
 $X[17, 13, 18, 12], X[7, 14, 8, 15], X[13, 8, 14, 9], X[15, 6, 16, 7], X[9, 2, 10, 3]]$ ,  
 Knot[9, 13] → PD[X[6, 2, 7, 1], X[14, 6, 15, 5], X[16, 8, 17, 7], X[18, 10, 1, 9],  
 $X[8, 18, 9, 17], X[10, 16, 11, 15], X[2, 14, 3, 13], X[12, 4, 13, 3], X[4, 12, 5, 11]]$ ,  
 Knot[9, 14] → PD[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 $X[13, 18, 14, 1], X[9, 15, 10, 14], X[7, 17, 8, 16], X[15, 9, 16, 8], X[17, 7, 18, 6]]$ ,  
 Knot[9, 15] → PD[X[1, 4, 2, 5], X[7, 10, 8, 11], X[3, 9, 4, 8], X[9, 3, 10, 2],  
 $X[13, 17, 14, 16], X[5, 15, 6, 14], X[15, 7, 16, 6], X[11, 1, 12, 18], X[17, 13, 18, 12]]$ ,  
 Knot[9, 16] → PD[X[4, 2, 5, 1], X[12, 4, 13, 3], X[16, 6, 17, 5], X[18, 8, 1, 7],  
 $X[6, 18, 7, 17], X[10, 16, 11, 15], X[14, 10, 15, 9], X[8, 14, 9, 13], X[2, 12, 3, 11]]$ ,  
 Knot[9, 17] → PD[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 $X[7, 14, 8, 15], X[13, 6, 14, 7], X[15, 18, 16, 1], X[9, 17, 10, 16], X[17, 9, 18, 8]]$ ,  
 Knot[9, 18] → PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[5, 14, 6, 15], X[9, 18, 10, 1],  
 $X[17, 6, 18, 7], X[7, 16, 8, 17], X[15, 8, 16, 9], X[13, 10, 14, 11], X[11, 2, 12, 3]]$ ,  
 Knot[9, 19] → PD[X[1, 4, 2, 5], X[5, 10, 6, 11], X[3, 9, 4, 8], X[9, 3, 10, 2],  
 $X[13, 16, 14, 17], X[7, 15, 8, 14], X[15, 7, 16, 6], X[11, 18, 12, 1], X[17, 12, 18, 13]]$ ,  
 Knot[9, 20] → PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[5, 14, 6, 15], X[7, 16, 8, 17],  
 $X[11, 1, 12, 18], X[15, 6, 16, 7], X[17, 13, 18, 12], X[13, 8, 14, 9], X[9, 2, 10, 3]]$ ,  
 Knot[9, 21] → PD[X[1, 4, 2, 5], X[9, 12, 10, 13], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 $X[13, 1, 14, 18], X[5, 15, 6, 14], X[17, 7, 18, 6], X[7, 17, 8, 16], X[15, 9, 16, 8]]$ ,  
 Knot[9, 22] → PD[X[4, 2, 5, 1], X[10, 6, 11, 5], X[8, 3, 9, 4], X[2, 9, 3, 10],  
 $X[16, 12, 17, 11], X[14, 7, 15, 8], X[6, 15, 7, 16], X[18, 14, 1, 13], X[12, 18, 13, 17]]$ ,  
 Knot[9, 23] → PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[5, 12, 6, 13], X[7, 16, 8, 17],  
 $X[13, 18, 14, 1], X[17, 14, 18, 15], X[15, 6, 16, 7], X[11, 8, 12, 9], X[9, 2, 10, 3]]$ ,  
 Knot[9, 24] → PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 14, 6, 15], X[9, 17, 10, 16],  
 $X[11, 1, 12, 18], X[17, 11, 18, 10], X[15, 13, 16, 12], X[13, 6, 14, 7], X[7, 2, 8, 3]]$ ,  
 Knot[9, 25] → PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 12, 6, 13], X[9, 17, 10, 16],  
 $X[13, 18, 14, 1], X[17, 14, 18, 15], X[15, 11, 16, 10], X[11, 6, 12, 7], X[7, 2, 8, 3]]$ ,  
 Knot[9, 26] → PD[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 $X[13, 18, 14, 1], X[7, 15, 8, 14], X[17, 7, 18, 6], X[9, 17, 10, 16], X[15, 9, 16, 8]]$ ,  
 Knot[9, 27] → PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[11, 1, 12, 18], X[5, 13, 6, 12],  
 $X[13, 17, 14, 16], X[7, 14, 8, 15], X[15, 6, 16, 7], X[17, 9, 18, 8], X[9, 2, 10, 3]]$ ,  
 Knot[9, 28] → PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[11, 15, 12, 14], X[5, 13, 6, 12],  
 $X[13, 7, 14, 6], X[15, 18, 16, 1], X[9, 16, 10, 17], X[17, 10, 18, 11], X[7, 2, 8, 3]]$ ,

Knot[9, 29] → PD[X[6, 2, 7, 1], X[16, 11, 17, 12], X[10, 4, 11, 3], X[2, 15, 3, 16],  
 X[14, 5, 15, 6], X[18, 8, 1, 7], X[4, 10, 5, 9], X[12, 17, 13, 18], X[8, 13, 9, 14]],  
 Knot[9, 30] → PD[X[4, 2, 5, 1], X[10, 6, 11, 5], X[8, 3, 9, 4], X[2, 9, 3, 10],  
 X[14, 8, 15, 7], X[18, 15, 1, 16], X[16, 11, 17, 12], X[12, 17, 13, 18], X[6, 14, 7, 13]],  
 Knot[9, 31] → PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[11, 1, 12, 18], X[5, 13, 6, 12],  
 X[17, 7, 18, 6], X[7, 14, 8, 15], X[13, 16, 14, 17], X[15, 8, 16, 9], X[9, 2, 10, 3]],  
 Knot[9, 32] → PD[X[1, 4, 2, 5], X[13, 18, 14, 1], X[3, 9, 4, 8], X[9, 3, 10, 2],  
 X[7, 15, 8, 14], X[15, 11, 16, 10], X[5, 12, 6, 13], X[11, 17, 12, 16], X[17, 7, 18, 6]],  
 Knot[9, 33] → PD[X[4, 2, 5, 1], X[12, 8, 13, 7], X[8, 3, 9, 4], X[2, 9, 3, 10],  
 X[18, 13, 1, 14], X[14, 5, 15, 6], X[6, 17, 7, 18], X[16, 12, 17, 11], X[10, 16, 11, 15]],  
 Knot[9, 34] → PD[X[6, 2, 7, 1], X[16, 8, 17, 7], X[8, 3, 9, 4], X[2, 15, 3, 16],  
 X[14, 9, 15, 10], X[10, 6, 11, 5], X[4, 14, 5, 13], X[18, 11, 1, 12], X[12, 17, 13, 18]],  
 Knot[9, 35] → PD[X[1, 8, 2, 9], X[7, 14, 8, 15], X[5, 16, 6, 17], X[9, 18, 10, 1],  
 X[15, 6, 16, 7], X[17, 10, 18, 11], X[13, 2, 14, 3], X[3, 12, 4, 13], X[11, 4, 12, 5]],  
 Knot[9, 36] → PD[X[1, 4, 2, 5], X[7, 10, 8, 11], X[3, 9, 4, 8], X[9, 3, 10, 2],  
 X[11, 17, 12, 16], X[5, 15, 6, 14], X[15, 7, 16, 6], X[13, 1, 14, 18], X[17, 13, 18, 12]],  
 Knot[9, 37] → PD[X[1, 4, 2, 5], X[7, 12, 8, 13], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 X[5, 14, 6, 15], X[13, 6, 14, 7], X[15, 18, 16, 1], X[9, 17, 10, 16], X[17, 9, 18, 8]],  
 Knot[9, 38] → PD[X[1, 6, 2, 7], X[5, 14, 6, 15], X[7, 18, 8, 1], X[15, 8, 16, 9],  
 X[3, 10, 4, 11], X[9, 4, 10, 5], X[17, 12, 18, 13], X[11, 16, 12, 17], X[13, 2, 14, 3]],  
 Knot[9, 39] → PD[X[1, 6, 2, 7], X[3, 11, 4, 10], X[7, 18, 8, 1], X[17, 13, 18, 12],  
 X[9, 17, 10, 16], X[5, 15, 6, 14], X[15, 5, 16, 4], X[11, 3, 12, 2], X[13, 9, 14, 8]],  
 Knot[9, 40] → PD[X[1, 6, 2, 7], X[7, 12, 8, 13], X[5, 15, 6, 14], X[11, 3, 12, 2],  
 X[15, 10, 16, 11], X[3, 16, 4, 17], X[9, 4, 10, 5], X[17, 9, 18, 8], X[13, 18, 14, 1]],  
 Knot[9, 41] → PD[X[6, 2, 7, 1], X[12, 8, 13, 7], X[14, 5, 15, 6], X[10, 3, 11, 4],  
 X[2, 11, 3, 12], X[4, 15, 5, 16], X[8, 17, 9, 18], X[16, 9, 17, 10], X[18, 14, 1, 13]],  
 Knot[9, 42] → PD[X[1, 4, 2, 5], X[5, 10, 6, 11], X[3, 9, 4, 8], X[9, 3, 10, 2],  
 X[16, 12, 17, 11], X[14, 7, 15, 8], X[6, 15, 7, 16], X[18, 14, 1, 13], X[12, 18, 13, 17]],  
 Knot[9, 43] → PD[X[4, 2, 5, 1], X[10, 6, 11, 5], X[8, 3, 9, 4], X[2, 9, 3, 10],  
 X[14, 8, 15, 7], X[15, 1, 16, 18], X[11, 17, 12, 16], X[17, 13, 18, 12], X[6, 14, 7, 13]],  
 Knot[9, 44] → PD[X[1, 4, 2, 5], X[5, 10, 6, 11], X[3, 9, 4, 8], X[9, 3, 10, 2],  
 X[14, 8, 15, 7], X[18, 15, 1, 16], X[16, 11, 17, 12], X[12, 17, 13, 18], X[6, 14, 7, 13]],  
 Knot[9, 45] → PD[X[4, 2, 5, 1], X[10, 6, 11, 5], X[8, 3, 9, 4], X[2, 9, 3, 10],  
 X[7, 14, 8, 15], X[18, 15, 1, 16], X[16, 11, 17, 12], X[12, 17, 13, 18], X[13, 6, 14, 7]],  
 Knot[9, 46] → PD[X[4, 2, 5, 1], X[7, 12, 8, 13], X[10, 3, 11, 4], X[2, 11, 3, 12],  
 X[5, 14, 6, 15], X[13, 6, 14, 7], X[15, 18, 16, 1], X[9, 17, 10, 16], X[17, 9, 18, 8]],  
 Knot[9, 47] → PD[X[6, 2, 7, 1], X[16, 8, 17, 7], X[8, 3, 9, 4], X[2, 15, 3, 16],  
 X[14, 9, 15, 10], X[10, 6, 11, 5], X[4, 14, 5, 13], X[11, 1, 12, 18], X[17, 13, 18, 12]],  
 Knot[9, 48] → PD[X[1, 4, 2, 5], X[12, 8, 13, 7], X[3, 11, 4, 10], X[11, 3, 12, 2],  
 X[14, 6, 15, 5], X[6, 14, 7, 13], X[15, 18, 16, 1], X[9, 17, 10, 16], X[17, 9, 18, 8]],  
 Knot[9, 49] → PD[X[6, 2, 7, 1], X[12, 8, 13, 7], X[5, 15, 6, 14], X[3, 11, 4, 10],  
 X[11, 3, 12, 2], X[15, 5, 16, 4], X[17, 9, 18, 8], X[9, 17, 10, 16], X[18, 14, 1, 13]],  
 Knot[10, 1] → PD[X[1, 4, 2, 5], X[11, 14, 12, 15], X[3, 13, 4, 12],  
 X[13, 3, 14, 2], X[5, 20, 6, 1], X[7, 18, 8, 19], X[9, 16, 10, 17],  
 X[15, 10, 16, 11], X[17, 8, 18, 9], X[19, 6, 20, 7]], Knot[10, 2] →  
 PD[X[1, 4, 2, 5], X[5, 14, 6, 15], X[3, 13, 4, 12], X[13, 3, 14, 2], X[7, 16, 8, 17],  
 X[9, 18, 10, 19], X[11, 20, 12, 1], X[15, 6, 16, 7], X[17, 8, 18, 9], X[19, 10, 20, 11]],  
 Knot[10, 3] → PD[X[1, 6, 2, 7], X[11, 16, 12, 17], X[5, 13, 6, 12],  
 X[3, 15, 4, 14], X[13, 5, 14, 4], X[15, 3, 16, 2], X[7, 20, 8, 1],  
 X[9, 18, 10, 19], X[17, 10, 18, 11], X[19, 8, 20, 9]], Knot[10, 4] →  
 PD[X[6, 2, 7, 1], X[16, 12, 17, 11], X[12, 3, 13, 4], X[2, 15, 3, 16], X[14, 5, 15, 6],

$X[20, 8, 1, 7], X[18, 10, 19, 9], X[4, 13, 5, 14], X[10, 18, 11, 17], X[8, 20, 9, 19],$   
 Knot[10, 5]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[13, 1, 14, 20],  
 $X[5, 15, 6, 14], X[7, 17, 8, 16], X[9, 19, 10, 18], X[15, 7, 16, 6],$   
 $X[17, 9, 18, 8], X[19, 11, 20, 10], X[11, 2, 12, 3]],$  Knot[10, 6]  $\rightarrow$   
 PD[X[1, 4, 2, 5], X[11, 14, 12, 15], X[3, 13, 4, 12], X[13, 3, 14, 2], X[5, 16, 6, 17],  
 $X[7, 18, 8, 19], X[9, 20, 10, 1], X[17, 6, 18, 7], X[19, 8, 20, 9], X[15, 10, 16, 11]],$   
 Knot[10, 7]  $\rightarrow$  PD[X[1, 4, 2, 5], X[5, 14, 6, 15], X[3, 13, 4, 12],  
 $X[13, 3, 14, 2], X[11, 20, 12, 1], X[19, 6, 20, 7], X[7, 18, 8, 19],$   
 $X[9, 16, 10, 17], X[15, 10, 16, 11], X[17, 8, 18, 9]],$  Knot[10, 8]  $\rightarrow$   
 PD[X[1, 6, 2, 7], X[7, 16, 8, 17], X[5, 13, 6, 12], X[3, 15, 4, 14], X[13, 5, 14, 4],  
 $X[15, 3, 16, 2], X[9, 18, 10, 19], X[11, 20, 12, 1], X[17, 8, 18, 9], X[19, 10, 20, 11]],$   
 Knot[10, 9]  $\rightarrow$  PD[X[6, 2, 7, 1], X[16, 8, 17, 7], X[12, 3, 13, 4],  
 $X[2, 15, 3, 16], X[14, 5, 15, 6], X[4, 13, 5, 14], X[18, 10, 19, 9],$   
 $X[20, 12, 1, 11], X[8, 18, 9, 17], X[10, 20, 11, 19]],$  Knot[10, 10]  $\rightarrow$   
 PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[13, 1, 14, 20], X[5, 15, 6, 14], X[19, 7, 20, 6],  
 $X[7, 19, 8, 18], X[9, 17, 10, 16], X[15, 11, 16, 10], X[17, 9, 18, 8], X[11, 2, 12, 3]],$   
 Knot[10, 11]  $\rightarrow$  PD[X[1, 6, 2, 7], X[11, 16, 12, 17], X[5, 13, 6, 12],  
 $X[3, 15, 4, 14], X[13, 5, 14, 4], X[15, 3, 16, 2], X[7, 18, 8, 19],$   
 $X[9, 20, 10, 1], X[19, 8, 20, 9], X[17, 10, 18, 11]],$  Knot[10, 12]  $\rightarrow$   
 PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[13, 19, 14, 18], X[5, 15, 6, 14], X[7, 17, 8, 16],  
 $X[15, 7, 16, 6], X[17, 9, 18, 8], X[11, 1, 12, 20], X[19, 13, 20, 12], X[9, 2, 10, 3]],$   
 Knot[10, 13]  $\rightarrow$  PD[X[1, 4, 2, 5], X[9, 12, 10, 13], X[3, 11, 4, 10],  
 $X[11, 3, 12, 2], X[5, 18, 6, 19], X[13, 1, 14, 20], X[19, 15, 20, 14],$   
 $X[7, 16, 8, 17], X[15, 8, 16, 9], X[17, 6, 18, 7]],$  Knot[10, 14]  $\rightarrow$   
 PD[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10], X[11, 3, 12, 2], X[7, 16, 8, 17],  
 $X[13, 20, 14, 1], X[19, 14, 20, 15], X[9, 18, 10, 19], X[15, 6, 16, 7], X[17, 8, 18, 9]],$   
 Knot[10, 15]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[9, 14, 10, 15],  
 $X[13, 10, 14, 11], X[15, 1, 16, 20], X[5, 17, 6, 16], X[7, 19, 8, 18],$   
 $X[17, 7, 18, 6], X[19, 9, 20, 8], X[11, 2, 12, 3]],$  Knot[10, 16]  $\rightarrow$   
 PD[X[6, 2, 7, 1], X[16, 8, 17, 7], X[12, 5, 13, 6], X[14, 3, 15, 4], X[4, 13, 5, 14],  
 $X[2, 15, 3, 16], X[20, 12, 1, 11], X[8, 20, 9, 19], X[18, 10, 19, 9], X[10, 18, 11, 17]],$   
 Knot[10, 17]  $\rightarrow$  PD[X[6, 2, 7, 1], X[12, 4, 13, 3], X[20, 15, 1, 16],  
 $X[16, 7, 17, 8], X[18, 9, 19, 10], X[8, 17, 9, 18], X[10, 19, 11, 20],$   
 $X[14, 6, 15, 5], X[2, 12, 3, 11], X[4, 14, 5, 13]],$  Knot[10, 18]  $\rightarrow$   
 PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[5, 14, 6, 15], X[15, 20, 16, 1], X[9, 17, 10, 16],  
 $X[7, 19, 8, 18], X[17, 9, 18, 8], X[19, 7, 20, 6], X[13, 10, 14, 11], X[11, 2, 12, 3]],$   
 Knot[10, 19]  $\rightarrow$  PD[X[1, 6, 2, 7], X[3, 12, 4, 13], X[15, 1, 16, 20],  
 $X[7, 17, 8, 16], X[19, 9, 20, 8], X[9, 19, 10, 18], X[17, 11, 18, 10],$   
 $X[5, 14, 6, 15], X[11, 2, 12, 3], X[13, 4, 14, 5]],$  Knot[10, 20]  $\rightarrow$   
 PD[X[1, 4, 2, 5], X[11, 14, 12, 15], X[3, 13, 4, 12], X[13, 3, 14, 2], X[5, 18, 6, 19],  
 $X[7, 20, 8, 1], X[19, 6, 20, 7], X[9, 16, 10, 17], X[15, 10, 16, 11], X[17, 8, 18, 9]],$   
 Knot[10, 21]  $\rightarrow$  PD[X[1, 4, 2, 5], X[5, 14, 6, 15], X[3, 13, 4, 12],  
 $X[13, 3, 14, 2], X[7, 16, 8, 17], X[11, 20, 12, 1], X[15, 6, 16, 7],$   
 $X[19, 8, 20, 9], X[9, 18, 10, 19], X[17, 10, 18, 11]],$  Knot[10, 22]  $\rightarrow$   
 PD[X[6, 2, 7, 1], X[16, 12, 17, 11], X[12, 3, 13, 4], X[2, 15, 3, 16], X[14, 5, 15, 6],  
 $X[18, 8, 19, 7], X[20, 10, 1, 9], X[8, 20, 9, 19], X[4, 13, 5, 14], X[10, 18, 11, 17]],$   
 Knot[10, 23]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[13, 1, 14, 20],  
 $X[5, 15, 6, 14], X[7, 17, 8, 16], X[15, 7, 16, 6], X[19, 9, 20, 8],$   
 $X[9, 19, 10, 18], X[17, 11, 18, 10], X[11, 2, 12, 3]],$  Knot[10, 24]  $\rightarrow$   
 PD[X[1, 4, 2, 5], X[11, 14, 12, 15], X[3, 13, 4, 12], X[13, 3, 14, 2], X[5, 16, 6, 17],  
 $X[9, 20, 10, 1], X[19, 6, 20, 7], X[7, 18, 8, 19], X[17, 8, 18, 9], X[15, 10, 16, 11]],$

Knot[10, 25] → PD[X[1, 4, 2, 5], X[5, 14, 6, 15], X[3, 13, 4, 12],  
 X[13, 3, 14, 2], X[11, 20, 12, 1], X[19, 6, 20, 7], X[9, 18, 10, 19],  
 X[7, 16, 8, 17], X[17, 8, 18, 9], X[15, 10, 16, 11]], Knot[10, 26] →  
 PD[X[6, 2, 7, 1], X[16, 8, 17, 7], X[12, 3, 13, 4], X[2, 15, 3, 16], X[14, 5, 15, 6],  
 X[4, 13, 5, 14], X[20, 12, 1, 11], X[8, 20, 9, 19], X[18, 10, 19, 9], X[10, 18, 11, 17]],  
 Knot[10, 27] → PD[X[4, 2, 5, 1], X[12, 4, 13, 3], X[20, 13, 1, 14],  
 X[14, 5, 15, 6], X[6, 19, 7, 20], X[18, 9, 19, 10], X[16, 7, 17, 8],  
 X[8, 17, 9, 18], X[10, 15, 11, 16], X[2, 12, 3, 11]], Knot[10, 28] →  
 PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[13, 19, 14, 18], X[5, 15, 6, 14], X[17, 7, 18, 6],  
 X[7, 17, 8, 16], X[15, 9, 16, 8], X[11, 1, 12, 20], X[19, 13, 20, 12], X[9, 2, 10, 3]],  
 Knot[10, 29] → PD[X[1, 4, 2, 5], X[9, 12, 10, 13], X[3, 11, 4, 10],  
 X[11, 3, 12, 2], X[5, 16, 6, 17], X[7, 18, 8, 19], X[13, 1, 14, 20],  
 X[17, 6, 18, 7], X[19, 15, 20, 14], X[15, 8, 16, 9]], Knot[10, 30] →  
 PD[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10], X[11, 3, 12, 2], X[9, 18, 10, 19],  
 X[13, 20, 14, 1], X[19, 14, 20, 15], X[17, 6, 18, 7], X[7, 16, 8, 17], X[15, 8, 16, 9]],  
 Knot[10, 31] → PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[9, 14, 10, 15],  
 X[13, 10, 14, 11], X[15, 1, 16, 20], X[5, 17, 6, 16], X[19, 7, 20, 6],  
 X[7, 19, 8, 18], X[17, 9, 18, 8], X[11, 2, 12, 3]], Knot[10, 32] →  
 PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[5, 14, 6, 15], X[15, 20, 16, 1], X[7, 17, 8, 16],  
 X[19, 7, 20, 6], X[9, 19, 10, 18], X[17, 9, 18, 8], X[13, 10, 14, 11], X[11, 2, 12, 3]],  
 Knot[10, 33] → PD[X[6, 2, 7, 1], X[14, 6, 15, 5], X[20, 15, 1, 16],  
 X[16, 7, 17, 8], X[8, 19, 9, 20], X[18, 9, 19, 10], X[10, 17, 11, 18],  
 X[2, 14, 3, 13], X[12, 4, 13, 3], X[4, 12, 5, 11]], Knot[10, 34] →  
 PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[13, 17, 14, 16], X[5, 15, 6, 14], X[15, 7, 16, 6],  
 X[9, 1, 10, 20], X[11, 19, 12, 18], X[17, 13, 18, 12], X[19, 11, 20, 10], X[7, 2, 8, 3]],  
 Knot[10, 35] → PD[X[1, 4, 2, 5], X[7, 10, 8, 11], X[3, 9, 4, 8],  
 X[9, 3, 10, 2], X[5, 16, 6, 17], X[11, 1, 12, 20], X[13, 19, 14, 18],  
 X[17, 15, 18, 14], X[19, 13, 20, 12], X[15, 6, 16, 7]], Knot[10, 36] →  
 PD[X[1, 4, 2, 5], X[5, 10, 6, 11], X[3, 9, 4, 8], X[9, 3, 10, 2], X[7, 16, 8, 17],  
 X[11, 20, 12, 1], X[13, 18, 14, 19], X[17, 14, 18, 15], X[19, 12, 20, 13], X[15, 6, 16, 7]],  
 Knot[10, 37] → PD[X[4, 2, 5, 1], X[10, 4, 11, 3], X[12, 8, 13, 7],  
 X[8, 12, 9, 11], X[18, 15, 19, 16], X[16, 5, 17, 6], X[6, 17, 7, 18],  
 X[20, 13, 1, 14], X[14, 19, 15, 20], X[2, 10, 3, 9]], Knot[10, 38] →  
 PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[5, 12, 6, 13], X[15, 18, 16, 19], X[7, 17, 8, 16],  
 X[17, 7, 18, 6], X[13, 20, 14, 1], X[19, 14, 20, 15], X[11, 8, 12, 9], X[9, 2, 10, 3]],  
 Knot[10, 39] → PD[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10],  
 X[11, 3, 12, 2], X[7, 14, 8, 15], X[9, 18, 10, 19], X[15, 20, 16, 1],  
 X[19, 16, 20, 17], X[13, 6, 14, 7], X[17, 8, 18, 9]], Knot[10, 40] →  
 PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[11, 1, 12, 20], X[5, 13, 6, 12], X[7, 17, 8, 16],  
 X[15, 19, 16, 18], X[19, 15, 20, 14], X[13, 7, 14, 6], X[17, 9, 18, 8], X[9, 2, 10, 3]],  
 Knot[10, 41] → PD[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10],  
 X[11, 3, 12, 2], X[9, 20, 10, 1], X[15, 19, 16, 18], X[13, 8, 14, 9],  
 X[17, 6, 18, 7], X[7, 16, 8, 17], X[19, 15, 20, 14]], Knot[10, 42] →  
 PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[11, 1, 12, 20], X[5, 13, 6, 12], X[15, 18, 16, 19],  
 X[13, 9, 14, 8], X[17, 7, 18, 6], X[7, 17, 8, 16], X[19, 14, 20, 15], X[9, 2, 10, 3]],  
 Knot[10, 43] → PD[X[4, 2, 5, 1], X[10, 4, 11, 3], X[14, 8, 15, 7],  
 X[20, 11, 1, 12], X[12, 19, 13, 20], X[8, 14, 9, 13], X[18, 15, 19, 16],  
 X[16, 5, 17, 6], X[6, 17, 7, 18], X[2, 10, 3, 9]], Knot[10, 44] →  
 PD[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10], X[11, 3, 12, 2], X[13, 20, 14, 1],  
 X[9, 15, 10, 14], X[15, 18, 16, 19], X[7, 16, 8, 17], X[17, 8, 18, 9], X[19, 7, 20, 6]],  
 Knot[10, 45] → PD[X[4, 2, 5, 1], X[12, 6, 13, 5], X[10, 3, 11, 4],

$X[2, 11, 3, 12], X[20, 14, 1, 13], X[14, 7, 15, 8], X[6, 19, 7, 20],$   
 $X[18, 15, 19, 16], X[16, 10, 17, 9], X[8, 18, 9, 17]]$ , Knot[10, 46] →  
 PD[X[6, 2, 7, 1], X[8, 4, 9, 3], X[2, 8, 3, 7], X[16, 10, 17, 9], X[14, 5, 15, 6],  
 $X[4, 15, 5, 16], X[18, 12, 19, 11], X[20, 14, 1, 13], X[10, 18, 11, 17], X[12, 20, 13, 19]]$ ,  
 Knot[10, 47] → PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[9, 17, 10, 16],  
 $X[5, 15, 6, 14], X[15, 7, 16, 6], X[11, 19, 12, 18], X[13, 1, 14, 20],$   
 $X[17, 11, 18, 10], X[19, 13, 20, 12], X[7, 2, 8, 3]]$ , Knot[10, 48] →  
 PD[X[6, 2, 7, 1], X[8, 4, 9, 3], X[14, 6, 15, 5], X[20, 15, 1, 16], X[16, 9, 17, 10],  
 $X[18, 11, 19, 12], X[10, 17, 11, 18], X[12, 19, 13, 20], X[2, 8, 3, 7], X[4, 14, 5, 13]]$ ,  
 Knot[10, 49] → PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 14, 6, 15], X[15, 20, 16, 1],  
 $X[9, 16, 10, 17], X[11, 18, 12, 19], X[17, 10, 18, 11],$   
 $X[19, 12, 20, 13], X[13, 6, 14, 7], X[7, 2, 8, 3]]$ , Knot[10, 50] →  
 PD[X[6, 2, 7, 1], X[8, 4, 9, 3], X[2, 8, 3, 7], X[16, 10, 17, 9], X[14, 5, 15, 6],  
 $X[4, 15, 5, 16], X[20, 14, 1, 13], X[10, 20, 11, 19], X[18, 12, 19, 11], X[12, 18, 13, 17]]$ ,  
 Knot[10, 51] → PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[9, 17, 10, 16],  
 $X[5, 15, 6, 14], X[15, 7, 16, 6], X[13, 1, 14, 20], X[19, 11, 20, 10],$   
 $X[11, 19, 12, 18], X[17, 13, 18, 12], X[7, 2, 8, 3]]$ , Knot[10, 52] →  
 PD[X[6, 2, 7, 1], X[8, 4, 9, 3], X[14, 6, 15, 5], X[20, 15, 1, 16], X[16, 9, 17, 10],  
 $X[10, 19, 11, 20], X[18, 11, 19, 12], X[12, 17, 13, 18], X[2, 8, 3, 7], X[4, 14, 5, 13]]$ ,  
 Knot[10, 53] → PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 14, 6, 15], X[15, 20, 16, 1],  
 $X[9, 16, 10, 17], X[19, 10, 20, 11], X[11, 18, 12, 19],$   
 $X[17, 12, 18, 13], X[13, 6, 14, 7], X[7, 2, 8, 3]]$ , Knot[10, 54] →  
 PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[7, 12, 8, 13], X[11, 8, 12, 9], X[13, 19, 14, 18],  
 $X[5, 17, 6, 16], X[17, 7, 18, 6], X[15, 1, 16, 20], X[19, 15, 20, 14], X[9, 2, 10, 3]]$ ,  
 Knot[10, 55] → PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 12, 6, 13],  
 $X[15, 18, 16, 19], X[9, 16, 10, 17], X[17, 10, 18, 11], X[13, 20, 14, 1],$   
 $X[19, 14, 20, 15], X[11, 6, 12, 7], X[7, 2, 8, 3]]$ , Knot[10, 56] →  
 PD[X[4, 2, 5, 1], X[10, 4, 11, 3], X[12, 6, 13, 5], X[18, 14, 19, 13], X[16, 7, 17, 8],  
 $X[6, 17, 7, 18], X[20, 16, 1, 15], X[14, 20, 15, 19], X[8, 12, 9, 11], X[2, 10, 3, 9]]$ ,  
 Knot[10, 57] → PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[9, 15, 10, 14],  
 $X[5, 13, 6, 12], X[13, 7, 14, 6], X[11, 19, 12, 18], X[15, 1, 16, 20],$   
 $X[19, 17, 20, 16], X[17, 11, 18, 10], X[7, 2, 8, 3]]$ , Knot[10, 58] →  
 PD[X[1, 4, 2, 5], X[7, 10, 8, 11], X[3, 9, 4, 8], X[9, 3, 10, 2], X[5, 14, 6, 15],  
 $X[11, 19, 12, 18], X[15, 20, 16, 1], X[19, 16, 20, 17], X[17, 13, 18, 12], X[13, 6, 14, 7]]$ ,  
 Knot[10, 59] → PD[X[4, 2, 5, 1], X[10, 6, 11, 5], X[8, 3, 9, 4],  
 $X[2, 9, 3, 10], X[14, 8, 15, 7], X[18, 12, 19, 11], X[20, 15, 1, 16],$   
 $X[16, 19, 17, 20], X[12, 18, 13, 17], X[6, 14, 7, 13]]$ , Knot[10, 60] →  
 PD[X[4, 2, 5, 1], X[10, 6, 11, 5], X[8, 3, 9, 4], X[2, 9, 3, 10], X[16, 12, 17, 11],  
 $X[14, 7, 15, 8], X[6, 15, 7, 16], X[20, 18, 1, 17], X[18, 13, 19, 14], X[12, 19, 13, 20]]$ ,  
 Knot[10, 61] → PD[X[8, 2, 9, 1], X[10, 4, 11, 3], X[2, 10, 3, 9],  
 $X[18, 12, 19, 11], X[14, 7, 15, 8], X[16, 5, 17, 6], X[6, 15, 7, 16],$   
 $X[4, 17, 5, 18], X[20, 14, 1, 13], X[12, 20, 13, 19]]$ , Knot[10, 62] →  
 PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[11, 19, 12, 18], X[5, 15, 6, 14], X[7, 17, 8, 16],  
 $X[15, 7, 16, 6], X[17, 9, 18, 8], X[13, 1, 14, 20], X[19, 13, 20, 12], X[9, 2, 10, 3]]$ ,  
 Knot[10, 63] → PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[5, 16, 6, 17],  
 $X[17, 20, 18, 1], X[11, 18, 12, 19], X[19, 12, 20, 13], X[7, 14, 8, 15],$   
 $X[13, 8, 14, 9], X[15, 6, 16, 7], X[9, 2, 10, 3]]$ , Knot[10, 64] →  
 PD[X[8, 2, 9, 1], X[10, 4, 11, 3], X[2, 10, 3, 9], X[18, 12, 19, 11], X[14, 5, 15, 6],  
 $X[4, 17, 5, 18], X[16, 7, 17, 8], X[6, 15, 7, 16], X[20, 14, 1, 13], X[12, 20, 13, 19]]$ ,  
 Knot[10, 65] → PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[11, 19, 12, 18],  
 $X[5, 15, 6, 14], X[17, 7, 18, 6], X[7, 17, 8, 16], X[15, 9, 16, 8],$

$X[13, 1, 14, 20], X[19, 13, 20, 12], X[9, 2, 10, 3], \text{Knot}[10, 66] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[3, 10, 4, 11], X[5, 14, 6, 15], X[7, 16, 8, 17], X[15, 6, 16, 7],$   
 $X[17, 20, 18, 1], X[11, 18, 12, 19], X[19, 12, 20, 13], X[13, 8, 14, 9], X[9, 2, 10, 3]],$   
 $\text{Knot}[10, 67] \rightarrow \text{PD}[X[1, 4, 2, 5], X[7, 12, 8, 13], X[3, 11, 4, 10],$   
 $X[11, 3, 12, 2], X[5, 14, 6, 15], X[13, 6, 14, 7], X[9, 18, 10, 19],$   
 $X[15, 20, 16, 1], X[19, 16, 20, 17], X[17, 8, 18, 9]], \text{Knot}[10, 68] \rightarrow$   
 $\text{PD}[X[4, 2, 5, 1], X[12, 4, 13, 3], X[20, 13, 1, 14], X[16, 5, 17, 6], X[8, 19, 9, 20],$   
 $X[18, 9, 19, 10], X[10, 17, 11, 18], X[14, 7, 15, 8], X[6, 15, 7, 16], X[2, 12, 3, 11]],$   
 $\text{Knot}[10, 69] \rightarrow \text{PD}[X[1, 4, 2, 5], X[7, 12, 8, 13], X[3, 11, 4, 10],$   
 $X[11, 3, 12, 2], X[13, 17, 14, 16], X[5, 15, 6, 14], X[15, 7, 16, 6],$   
 $X[17, 20, 18, 1], X[9, 19, 10, 18], X[19, 9, 20, 8]], \text{Knot}[10, 70] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[7, 10, 8, 11], X[3, 9, 4, 8], X[9, 3, 10, 2], X[5, 16, 6, 17],$   
 $X[11, 19, 12, 18], X[13, 1, 14, 20], X[19, 13, 20, 12], X[17, 15, 18, 14], X[15, 6, 16, 7]],$   
 $\text{Knot}[10, 71] \rightarrow \text{PD}[X[1, 4, 2, 5], X[3, 8, 4, 9], X[11, 15, 12, 14],$   
 $X[5, 13, 6, 12], X[13, 7, 14, 6], X[9, 19, 10, 18], X[15, 20, 16, 1],$   
 $X[19, 16, 20, 17], X[17, 11, 18, 10], X[7, 2, 8, 3]], \text{Knot}[10, 72] \rightarrow$   
 $\text{PD}[X[4, 2, 5, 1], X[10, 6, 11, 5], X[8, 3, 9, 4], X[2, 9, 3, 10], X[16, 8, 17, 7],$   
 $X[18, 12, 19, 11], X[20, 14, 1, 13], X[12, 20, 13, 19], X[14, 18, 15, 17], X[6, 16, 7, 15]],$   
 $\text{Knot}[10, 73] \rightarrow \text{PD}[X[4, 2, 5, 1], X[10, 6, 11, 5], X[8, 3, 9, 4], X[2, 9, 3, 10],$   
 $X[16, 14, 17, 13], X[14, 7, 15, 8], X[6, 15, 7, 16], X[20, 17, 1, 18],$   
 $X[18, 11, 19, 12], X[12, 19, 13, 20]], \text{Knot}[10, 74] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[5, 14, 6, 15], X[3, 13, 4, 12], X[13, 3, 14, 2], X[11, 18, 12, 19],$   
 $X[9, 20, 10, 1], X[19, 10, 20, 11], X[17, 6, 18, 7], X[7, 16, 8, 17], X[15, 8, 16, 9]],$   
 $\text{Knot}[10, 75] \rightarrow \text{PD}[X[1, 4, 2, 5], X[5, 12, 6, 13], X[3, 11, 4, 10],$   
 $X[11, 3, 12, 2], X[13, 16, 14, 17], X[7, 15, 8, 14], X[15, 7, 16, 6],$   
 $X[17, 20, 18, 1], X[9, 19, 10, 18], X[19, 9, 20, 8]], \text{Knot}[10, 76] \rightarrow$   
 $\text{PD}[X[4, 2, 5, 1], X[14, 10, 15, 9], X[12, 3, 13, 4], X[2, 13, 3, 14], X[18, 6, 19, 5],$   
 $X[20, 8, 1, 7], X[6, 20, 7, 19], X[8, 18, 9, 17], X[16, 12, 17, 11], X[10, 16, 11, 15]],$   
 $\text{Knot}[10, 77] \rightarrow \text{PD}[X[1, 4, 2, 5], X[3, 8, 4, 9], X[13, 17, 14, 16],$   
 $X[5, 15, 6, 14], X[15, 7, 16, 6], X[9, 19, 10, 18], X[11, 1, 12, 20],$   
 $X[19, 11, 20, 10], X[17, 13, 18, 12], X[7, 2, 8, 3]], \text{Knot}[10, 78] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 14, 6, 15], X[11, 17, 12, 16], X[15, 13, 16, 12],$   
 $X[17, 20, 18, 1], X[9, 18, 10, 19], X[19, 10, 20, 11], X[13, 6, 14, 7], X[7, 2, 8, 3]],$   
 $\text{Knot}[10, 79] \rightarrow \text{PD}[X[6, 2, 7, 1], X[8, 4, 9, 3], X[12, 6, 13, 5],$   
 $X[18, 13, 19, 14], X[16, 9, 17, 10], X[10, 17, 11, 18], X[20, 15, 1, 16],$   
 $X[14, 19, 15, 20], X[2, 8, 3, 7], X[4, 12, 5, 11]], \text{Knot}[10, 80] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 12, 6, 13], X[13, 18, 14, 19], X[9, 16, 10, 17],$   
 $X[17, 10, 18, 11], X[15, 20, 16, 1], X[19, 14, 20, 15], X[11, 6, 12, 7], X[7, 2, 8, 3]],$   
 $\text{Knot}[10, 81] \rightarrow \text{PD}[X[4, 2, 5, 1], X[8, 4, 9, 3], X[12, 6, 13, 5], X[16, 9, 17, 10],$   
 $X[20, 17, 1, 18], X[18, 13, 19, 14], X[14, 19, 15, 20],$   
 $X[10, 15, 11, 16], X[6, 12, 7, 11], X[2, 8, 3, 7]], \text{Knot}[10, 82] \rightarrow$   
 $\text{PD}[X[1, 6, 2, 7], X[7, 16, 8, 17], X[3, 9, 4, 8], X[15, 3, 16, 2], X[5, 15, 6, 14],$   
 $X[9, 5, 10, 4], X[11, 18, 12, 19], X[13, 20, 14, 1], X[17, 10, 18, 11], X[19, 12, 20, 13]],$   
 $\text{Knot}[10, 83] \rightarrow \text{PD}[X[1, 6, 2, 7], X[5, 16, 6, 17], X[13, 1, 14, 20],$   
 $X[7, 15, 8, 14], X[3, 9, 4, 8], X[9, 5, 10, 4], X[19, 11, 20, 10],$   
 $X[11, 19, 12, 18], X[17, 13, 18, 12], X[15, 2, 16, 3]], \text{Knot}[10, 84] \rightarrow$   
 $\text{PD}[X[4, 2, 5, 1], X[10, 4, 11, 3], X[8, 12, 9, 11], X[20, 15, 1, 16], X[16, 5, 17, 6],$   
 $X[12, 18, 13, 17], X[14, 8, 15, 7], X[18, 14, 19, 13], X[6, 19, 7, 20], X[2, 10, 3, 9]],$   
 $\text{Knot}[10, 85] \rightarrow \text{PD}[X[6, 2, 7, 1], X[16, 6, 17, 5], X[18, 11, 19, 12],$   
 $X[14, 7, 15, 8], X[8, 3, 9, 4], X[4, 9, 5, 10], X[20, 13, 1, 14],$   
 $X[10, 17, 11, 18], X[12, 19, 13, 20], X[2, 16, 3, 15]], \text{Knot}[10, 86] \rightarrow$

PD[X[6, 2, 7, 1], X[16, 8, 17, 7], X[8, 3, 9, 4], X[2, 15, 3, 16], X[14, 5, 15, 6],  
 X[4, 9, 5, 10], X[20, 14, 1, 13], X[10, 20, 11, 19], X[18, 12, 19, 11], X[12, 18, 13, 17]],  
 Knot[10, 87] → PD[X[4, 2, 5, 1], X[10, 4, 11, 3], X[14, 6, 15, 5],  
 X[20, 16, 1, 15], X[16, 7, 17, 8], X[6, 19, 7, 20], X[8, 12, 9, 11],  
 X[18, 13, 19, 14], X[12, 17, 13, 18], X[2, 10, 3, 9]], Knot[10, 88] →  
 PD[X[4, 2, 5, 1], X[20, 14, 1, 13], X[8, 3, 9, 4], X[2, 9, 3, 10], X[14, 7, 15, 8],  
 X[18, 15, 19, 16], X[12, 6, 13, 5], X[10, 18, 11, 17], X[16, 12, 17, 11], X[6, 19, 7, 20]],  
 Knot[10, 89] → PD[X[4, 2, 5, 1], X[12, 8, 13, 7], X[8, 3, 9, 4], X[2, 9, 3, 10],  
 X[20, 13, 1, 14], X[14, 5, 15, 6], X[6, 19, 7, 20], X[18, 16, 19, 15],  
 X[16, 11, 17, 12], X[10, 17, 11, 18]], Knot[10, 90] →  
 PD[X[6, 2, 7, 1], X[2, 8, 3, 7], X[18, 14, 19, 13], X[14, 5, 15, 6], X[20, 12, 1, 11],  
 X[12, 20, 13, 19], X[8, 15, 9, 16], X[10, 4, 11, 3], X[16, 9, 17, 10], X[4, 17, 5, 18]],  
 Knot[10, 91] → PD[X[6, 2, 7, 1], X[20, 6, 1, 5], X[16, 9, 17, 10],  
 X[10, 3, 11, 4], X[2, 18, 3, 17], X[14, 7, 15, 8], X[8, 15, 9, 16],  
 X[12, 20, 13, 19], X[18, 12, 19, 11], X[4, 13, 5, 14]], Knot[10, 92] →  
 PD[X[4, 2, 5, 1], X[10, 4, 11, 3], X[14, 6, 15, 5], X[20, 16, 1, 15], X[16, 12, 17, 11],  
 X[18, 7, 19, 8], X[12, 18, 13, 17], X[6, 19, 7, 20], X[8, 14, 9, 13], X[2, 10, 3, 9]],  
 Knot[10, 93] → PD[X[6, 2, 7, 1], X[16, 6, 17, 5], X[20, 8, 1, 7],  
 X[18, 13, 19, 14], X[14, 9, 15, 10], X[10, 3, 11, 4], X[4, 11, 5, 12],  
 X[12, 17, 13, 18], X[8, 20, 9, 19], X[2, 16, 3, 15]], Knot[10, 94] →  
 PD[X[6, 2, 7, 1], X[2, 8, 3, 7], X[18, 12, 19, 11], X[14, 5, 15, 6], X[20, 14, 1, 13],  
 X[8, 15, 9, 16], X[10, 4, 11, 3], X[16, 9, 17, 10], X[4, 17, 5, 18], X[12, 20, 13, 19]],  
 Knot[10, 95] → PD[X[1, 4, 2, 5], X[3, 10, 4, 11], X[11, 17, 12, 16],  
 X[15, 9, 16, 8], X[19, 7, 20, 6], X[5, 15, 6, 14], X[7, 19, 8, 18],  
 X[13, 1, 14, 20], X[17, 13, 18, 12], X[9, 2, 10, 3]], Knot[10, 96] →  
 PD[X[1, 4, 2, 5], X[5, 18, 6, 19], X[3, 9, 4, 8], X[9, 3, 10, 2], X[11, 17, 12, 16],  
 X[7, 12, 8, 13], X[15, 6, 16, 7], X[17, 11, 18, 10], X[13, 1, 14, 20], X[19, 15, 20, 14]],  
 Knot[10, 97] → PD[X[4, 2, 5, 1], X[12, 6, 13, 5], X[8, 3, 9, 4], X[2, 9, 3, 10],  
 X[16, 12, 17, 11], X[10, 18, 11, 17], X[18, 8, 19, 7],  
 X[20, 14, 1, 13], X[14, 20, 15, 19], X[6, 16, 7, 15]], Knot[10, 98] →  
 PD[X[1, 6, 2, 7], X[3, 10, 4, 11], X[7, 18, 8, 19], X[17, 8, 18, 9], X[9, 2, 10, 3],  
 X[11, 16, 12, 17], X[5, 15, 6, 14], X[15, 5, 16, 4], X[13, 20, 14, 1], X[19, 12, 20, 13]],  
 Knot[10, 99] → PD[X[6, 2, 7, 1], X[10, 4, 11, 3], X[16, 11, 17, 12],  
 X[14, 7, 15, 8], X[8, 15, 9, 16], X[20, 13, 1, 14], X[12, 19, 13, 20],  
 X[18, 6, 19, 5], X[2, 10, 3, 9], X[4, 18, 5, 17]], Knot[10, 100] →  
 PD[X[6, 2, 7, 1], X[18, 6, 19, 5], X[20, 13, 1, 14], X[14, 7, 15, 8], X[10, 3, 11, 4],  
 X[16, 9, 17, 10], X[4, 11, 5, 12], X[8, 15, 9, 16], X[12, 19, 13, 20], X[2, 18, 3, 17]],  
 Knot[10, 101] → PD[X[4, 2, 5, 1], X[10, 4, 11, 3], X[14, 6, 15, 5],  
 X[20, 16, 1, 15], X[16, 12, 17, 11], X[12, 20, 13, 19], X[18, 8, 19, 7],  
 X[6, 14, 7, 13], X[8, 18, 9, 17], X[2, 10, 3, 9]], Knot[10, 102] →  
 PD[X[6, 2, 7, 1], X[16, 10, 17, 9], X[10, 3, 11, 4], X[2, 15, 3, 16], X[14, 5, 15, 6],  
 X[18, 8, 19, 7], X[4, 11, 5, 12], X[8, 18, 9, 17], X[20, 14, 1, 13], X[12, 20, 13, 19]],  
 Knot[10, 103] → PD[X[6, 2, 7, 1], X[18, 6, 19, 5], X[20, 13, 1, 14],  
 X[16, 7, 17, 8], X[10, 3, 11, 4], X[4, 11, 5, 12], X[14, 9, 15, 10],  
 X[8, 15, 9, 16], X[12, 19, 13, 20], X[2, 18, 3, 17]], Knot[10, 104] →  
 PD[X[6, 2, 7, 1], X[16, 4, 17, 3], X[18, 9, 19, 10], X[14, 7, 15, 8], X[20, 13, 1, 14],  
 X[8, 17, 9, 18], X[10, 19, 11, 20], X[12, 6, 13, 5], X[4, 12, 5, 11], X[2, 16, 3, 15]],  
 Knot[10, 105] → PD[X[4, 2, 5, 1], X[12, 4, 13, 3], X[20, 8, 1, 7],  
 X[16, 5, 17, 6], X[6, 15, 7, 16], X[10, 17, 11, 18], X[18, 9, 19, 10],  
 X[8, 14, 9, 13], X[14, 20, 15, 19], X[2, 12, 3, 11]], Knot[10, 106] →  
 PD[X[6, 2, 7, 1], X[16, 8, 17, 7], X[10, 3, 11, 4], X[2, 15, 3, 16], X[14, 5, 15, 6],

$X[4, 11, 5, 12], X[18, 10, 19, 9], X[20, 14, 1, 13], X[8, 18, 9, 17], X[12, 20, 13, 19]],$   
 Knot[10, 107]  $\rightarrow$  PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[7, 14, 8, 15],  
 $X[9, 19, 10, 18], X[19, 7, 20, 6], X[5, 17, 6, 16], X[17, 11, 18, 10],$   
 $X[13, 8, 14, 9], X[15, 1, 16, 20], X[11, 2, 12, 3]],$  Knot[10, 108]  $\rightarrow$   
 PD[X[6, 2, 7, 1], X[16, 4, 17, 3], X[20, 13, 1, 14], X[14, 7, 15, 8], X[8, 19, 9, 20],  
 $X[18, 9, 19, 10], X[10, 17, 11, 18], X[12, 6, 13, 5], X[4, 12, 5, 11], X[2, 16, 3, 15]],$   
 Knot[10, 109]  $\rightarrow$  PD[X[6, 2, 7, 1], X[10, 4, 11, 3], X[18, 11, 19, 12],  
 $X[16, 7, 17, 8], X[8, 17, 9, 18], X[20, 15, 1, 16], X[12, 19, 13, 20],$   
 $X[14, 6, 15, 5], X[2, 10, 3, 9], X[4, 14, 5, 13]],$  Knot[10, 110]  $\rightarrow$   
 PD[X[1, 6, 2, 7], X[7, 20, 8, 1], X[3, 11, 4, 10], X[5, 16, 6, 17], X[17, 8, 18, 9],  
 $X[9, 14, 10, 15], X[11, 3, 12, 2], X[15, 4, 16, 5], X[13, 19, 14, 18], X[19, 13, 20, 12]],$   
 Knot[10, 111]  $\rightarrow$  PD[X[6, 2, 7, 1], X[10, 4, 11, 3], X[14, 8, 15, 7],  
 $X[8, 14, 9, 13], X[2, 10, 3, 9], X[18, 12, 19, 11], X[16, 5, 17, 6],$   
 $X[4, 17, 5, 18], X[20, 16, 1, 15], X[12, 20, 13, 19]],$  Knot[10, 112]  $\rightarrow$   
 PD[X[6, 2, 7, 1], X[8, 3, 9, 4], X[18, 11, 19, 12], X[20, 13, 1, 14], X[2, 16, 3, 15],  
 $X[4, 17, 5, 18], X[12, 19, 13, 20], X[10, 6, 11, 5], X[14, 7, 15, 8], X[16, 10, 17, 9]],$   
 Knot[10, 113]  $\rightarrow$  PD[X[4, 2, 5, 1], X[10, 4, 11, 3], X[14, 6, 15, 5],  
 $X[20, 16, 1, 15], X[12, 7, 13, 8], X[8, 18, 9, 17], X[6, 19, 7, 20],$   
 $X[16, 12, 17, 11], X[18, 13, 19, 14], X[2, 10, 3, 9]],$  Knot[10, 114]  $\rightarrow$   
 PD[X[6, 2, 7, 1], X[8, 3, 9, 4], X[18, 13, 19, 14], X[20, 11, 1, 12], X[12, 19, 13, 20],  
 $X[2, 16, 3, 15], X[4, 17, 5, 18], X[10, 6, 11, 5], X[14, 7, 15, 8], X[16, 10, 17, 9]],$   
 Knot[10, 115]  $\rightarrow$  PD[X[6, 2, 7, 1], X[14, 6, 15, 5], X[20, 15, 1, 16],  
 $X[16, 7, 17, 8], X[8, 19, 9, 20], X[18, 11, 19, 12], X[10, 4, 11, 3],$   
 $X[4, 10, 5, 9], X[12, 17, 13, 18], X[2, 14, 3, 13]],$  Knot[10, 116]  $\rightarrow$   
 PD[X[6, 2, 7, 1], X[16, 3, 17, 4], X[14, 7, 15, 8], X[8, 15, 9, 16], X[10, 18, 11, 17],  
 $X[18, 6, 19, 5], X[20, 13, 1, 14], X[12, 19, 13, 20], X[2, 10, 3, 9], X[4, 11, 5, 12]],$   
 Knot[10, 117]  $\rightarrow$  PD[X[1, 6, 2, 7], X[5, 16, 6, 17], X[13, 1, 14, 20],  
 $X[7, 15, 8, 14], X[19, 9, 20, 8], X[3, 11, 4, 10], X[11, 5, 12, 4],$   
 $X[9, 19, 10, 18], X[17, 13, 18, 12], X[15, 2, 16, 3]],$   
 Knot[10, 118]  $\rightarrow$  PD[X[6, 2, 7, 1], X[18, 6, 19, 5], X[20, 13, 1, 14],  
 $X[12, 19, 13, 20], X[14, 7, 15, 8], X[8, 3, 9, 4], X[2, 16, 3, 15],$   
 $X[10, 18, 11, 17], X[16, 10, 17, 9], X[4, 11, 5, 12]],$  Knot[10, 119]  $\rightarrow$   
 PD[X[1, 6, 2, 7], X[7, 18, 8, 19], X[3, 9, 4, 8], X[17, 3, 18, 2], X[5, 15, 6, 14],  
 $X[9, 17, 10, 16], X[15, 11, 16, 10], X[11, 5, 12, 4], X[13, 20, 14, 1], X[19, 12, 20, 13]],$   
 Knot[10, 120]  $\rightarrow$  PD[X[1, 6, 2, 7], X[5, 18, 6, 19], X[13, 20, 14, 1],  
 $X[11, 16, 12, 17], X[3, 10, 4, 11], X[7, 12, 8, 13], X[9, 4, 10, 5],$   
 $X[15, 8, 16, 9], X[19, 14, 20, 15], X[17, 2, 18, 3]],$  Knot[10, 121]  $\rightarrow$   
 PD[X[1, 6, 2, 7], X[7, 20, 8, 1], X[9, 19, 10, 18], X[3, 11, 4, 10], X[17, 5, 18, 4],  
 $X[5, 12, 6, 13], X[11, 16, 12, 17], X[19, 14, 20, 15], X[13, 8, 14, 9], X[15, 2, 16, 3]],$   
 Knot[10, 122]  $\rightarrow$  PD[X[1, 6, 2, 7], X[7, 15, 8, 14], X[15, 2, 16, 3],  
 $X[5, 12, 6, 13], X[9, 19, 10, 18], X[3, 11, 4, 10], X[17, 5, 18, 4],$   
 $X[19, 9, 20, 8], X[11, 16, 12, 17], X[13, 1, 14, 20]],$  Knot[10, 123]  $\rightarrow$   
 PD[X[8, 2, 9, 1], X[10, 3, 11, 4], X[12, 6, 13, 5], X[4, 18, 5, 17], X[18, 11, 19, 12],  
 $X[2, 15, 3, 16], X[16, 10, 17, 9], X[20, 14, 1, 13], X[14, 7, 15, 8], X[6, 19, 7, 20]],$   
 Knot[10, 124]  $\rightarrow$  PD[X[4, 2, 5, 1], X[8, 4, 9, 3], X[9, 17, 10, 16],  
 $X[5, 15, 6, 14], X[15, 7, 16, 6], X[11, 19, 12, 18], X[13, 1, 14, 20],$   
 $X[17, 11, 18, 10], X[19, 13, 20, 12], X[2, 8, 3, 7]],$  Knot[10, 125]  $\rightarrow$   
 PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 14, 6, 15], X[20, 16, 1, 15], X[16, 10, 17, 9],  
 $X[18, 12, 19, 11], X[10, 18, 11, 17], X[12, 20, 13, 19], X[13, 6, 14, 7], X[7, 2, 8, 3]],$   
 Knot[10, 126]  $\rightarrow$  PD[X[4, 2, 5, 1], X[8, 4, 9, 3], X[5, 14, 6, 15],  
 $X[15, 20, 16, 1], X[9, 16, 10, 17], X[11, 18, 12, 19], X[17, 10, 18, 11],$

$X[19, 12, 20, 13], X[13, 6, 14, 7], X[2, 8, 3, 7], \text{Knot}[10, 127] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[3, 8, 4, 9], X[14, 6, 15, 5], X[15, 20, 16, 1], X[9, 16, 10, 17],$   
 $X[11, 18, 12, 19], X[17, 10, 18, 11], X[19, 12, 20, 13], X[6, 14, 7, 13], X[7, 2, 8, 3]],$   
 $\text{Knot}[10, 128] \rightarrow \text{PD}[X[4, 2, 5, 1], X[8, 4, 9, 3], X[9, 17, 10, 16],$   
 $X[5, 15, 6, 14], X[15, 7, 16, 6], X[13, 1, 14, 20], X[19, 11, 20, 10],$   
 $X[11, 19, 12, 18], X[17, 13, 18, 12], X[2, 8, 3, 7], \text{Knot}[10, 129] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[3, 8, 4, 9], X[5, 14, 6, 15], X[20, 16, 1, 15], X[16, 10, 17, 9],$   
 $X[10, 20, 11, 19], X[18, 12, 19, 11], X[12, 18, 13, 17], X[13, 6, 14, 7], X[7, 2, 8, 3]],$   
 $\text{Knot}[10, 130] \rightarrow \text{PD}[X[4, 2, 5, 1], X[8, 4, 9, 3], X[5, 14, 6, 15],$   
 $X[15, 20, 16, 1], X[9, 16, 10, 17], X[19, 10, 20, 11], X[11, 18, 12, 19],$   
 $X[17, 12, 18, 13], X[13, 6, 14, 7], X[2, 8, 3, 7], \text{Knot}[10, 131] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[3, 8, 4, 9], X[14, 6, 15, 5], X[15, 20, 16, 1], X[9, 16, 10, 17],$   
 $X[19, 10, 20, 11], X[11, 18, 12, 19], X[17, 12, 18, 13], X[6, 14, 7, 13], X[7, 2, 8, 3]],$   
 $\text{Knot}[10, 132] \rightarrow \text{PD}[X[4, 2, 5, 1], X[8, 4, 9, 3], X[5, 12, 6, 13],$   
 $X[15, 18, 16, 19], X[9, 16, 10, 17], X[17, 10, 18, 11], X[13, 20, 14, 1],$   
 $X[19, 14, 20, 15], X[11, 6, 12, 7], X[2, 8, 3, 7], \text{Knot}[10, 133] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[3, 8, 4, 9], X[14, 9, 15, 10], X[5, 13, 6, 12], X[13, 7, 14, 6],$   
 $X[18, 11, 19, 12], X[20, 15, 1, 16], X[16, 19, 17, 20], X[10, 17, 11, 18], X[7, 2, 8, 3]],$   
 $\text{Knot}[10, 134] \rightarrow \text{PD}[X[4, 2, 5, 1], X[8, 4, 9, 3], X[9, 15, 10, 14],$   
 $X[5, 13, 6, 12], X[13, 7, 14, 6], X[11, 19, 12, 18], X[15, 1, 16, 20],$   
 $X[19, 17, 20, 16], X[17, 11, 18, 10], X[2, 8, 3, 7], \text{Knot}[10, 135] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[3, 8, 4, 9], X[9, 15, 10, 14], X[12, 5, 13, 6], X[6, 13, 7, 14],$   
 $X[11, 19, 12, 18], X[15, 1, 16, 20], X[19, 17, 20, 16], X[17, 11, 18, 10], X[7, 2, 8, 3]],$   
 $\text{Knot}[10, 136] \rightarrow \text{PD}[X[1, 4, 2, 5], X[5, 10, 6, 11], X[3, 9, 4, 8],$   
 $X[9, 3, 10, 2], X[14, 8, 15, 7], X[18, 12, 19, 11], X[20, 15, 1, 16],$   
 $X[16, 19, 17, 20], X[12, 18, 13, 17], X[6, 14, 7, 13], \text{Knot}[10, 137] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[5, 10, 6, 11], X[3, 9, 4, 8], X[9, 3, 10, 2], X[16, 12, 17, 11],$   
 $X[14, 7, 15, 8], X[6, 15, 7, 16], X[20, 18, 1, 17], X[18, 13, 19, 14], X[12, 19, 13, 20]],$   
 $\text{Knot}[10, 138] \rightarrow \text{PD}[X[4, 2, 5, 1], X[10, 6, 11, 5], X[8, 3, 9, 4],$   
 $X[2, 9, 3, 10], X[16, 12, 17, 11], X[7, 15, 8, 14], X[15, 7, 16, 6],$   
 $X[20, 18, 1, 17], X[18, 13, 19, 14], X[12, 19, 13, 20], \text{Knot}[10, 139] \rightarrow$   
 $\text{PD}[X[4, 2, 5, 1], X[10, 4, 11, 3], X[11, 19, 12, 18], X[5, 15, 6, 14], X[7, 17, 8, 16],$   
 $X[15, 7, 16, 6], X[17, 9, 18, 8], X[13, 1, 14, 20], X[19, 13, 20, 12], X[2, 10, 3, 9]],$   
 $\text{Knot}[10, 140] \rightarrow \text{PD}[X[1, 4, 2, 5], X[3, 10, 4, 11], X[11, 19, 12, 18],$   
 $X[14, 5, 15, 6], X[6, 17, 7, 18], X[16, 7, 17, 8], X[8, 15, 9, 16],$   
 $X[13, 1, 14, 20], X[19, 13, 20, 12], X[9, 2, 10, 3], \text{Knot}[10, 141] \rightarrow$   
 $\text{PD}[X[1, 4, 2, 5], X[3, 10, 4, 11], X[14, 6, 15, 5], X[16, 8, 17, 7], X[6, 16, 7, 15],$   
 $X[17, 20, 18, 1], X[11, 18, 12, 19], X[19, 12, 20, 13], X[8, 14, 9, 13], X[9, 2, 10, 3]],$   
 $\text{Knot}[10, 142] \rightarrow \text{PD}[X[4, 2, 5, 1], X[10, 4, 11, 3], X[11, 19, 12, 18],$   
 $X[5, 15, 6, 14], X[17, 7, 18, 6], X[7, 17, 8, 16], X[15, 9, 16, 8],$   
 $X[13, 1, 14, 20], X[19, 13, 20, 12], X[2, 10, 3, 9], \text{Knot}[10, 143] \rightarrow$   
 $\text{PD}[X[4, 2, 5, 1], X[10, 4, 11, 3], X[5, 14, 6, 15], X[7, 16, 8, 17], X[15, 6, 16, 7],$   
 $X[17, 20, 18, 1], X[11, 18, 12, 19], X[19, 12, 20, 13], X[13, 8, 14, 9], X[2, 10, 3, 9]],$   
 $\text{Knot}[10, 144] \rightarrow \text{PD}[X[1, 4, 2, 5], X[3, 10, 4, 11], X[18, 11, 19, 12],$   
 $X[5, 15, 6, 14], X[17, 7, 18, 6], X[7, 17, 8, 16], X[15, 9, 16, 8],$   
 $X[20, 13, 1, 14], X[12, 19, 13, 20], X[9, 2, 10, 3], \text{Knot}[10, 145] \rightarrow$   
 $\text{PD}[X[4, 2, 5, 1], X[5, 12, 6, 13], X[8, 3, 9, 4], X[2, 9, 3, 10], X[11, 16, 12, 17],$   
 $X[17, 10, 18, 11], X[7, 18, 8, 19], X[13, 20, 14, 1], X[19, 14, 20, 15], X[15, 6, 16, 7]],$   
 $\text{Knot}[10, 146] \rightarrow \text{PD}[X[4, 2, 5, 1], X[5, 18, 6, 19], X[8, 3, 9, 4],$   
 $X[2, 9, 3, 10], X[11, 17, 12, 16], X[7, 12, 8, 13], X[15, 6, 16, 7],$   
 $X[17, 11, 18, 10], X[13, 1, 14, 20], X[19, 15, 20, 14], \text{Knot}[10, 147] \rightarrow$

PD[X[4, 2, 5, 1], X[10, 4, 11, 3], X[5, 14, 6, 15], X[15, 20, 16, 1], X[12, 7, 13, 8],  
 X[8, 18, 9, 17], X[19, 7, 20, 6], X[16, 12, 17, 11], X[18, 13, 19, 14], X[2, 10, 3, 9]],  
 Knot[10, 148] → PD[X[4, 2, 5, 1], X[8, 4, 9, 3], X[5, 12, 6, 13],  
 X[13, 18, 14, 19], X[9, 16, 10, 17], X[17, 10, 18, 11], X[15, 20, 16, 1],  
 X[19, 14, 20, 15], X[11, 6, 12, 7], X[2, 8, 3, 7]], Knot[10, 149] →  
 PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[12, 6, 13, 5], X[13, 18, 14, 19], X[9, 16, 10, 17],  
 X[17, 10, 18, 11], X[15, 20, 16, 1], X[19, 14, 20, 15], X[6, 12, 7, 11], X[7, 2, 8, 3]],  
 Knot[10, 150] → PD[X[4, 2, 5, 1], X[8, 4, 9, 3], X[5, 12, 6, 13],  
 X[9, 17, 10, 16], X[17, 1, 18, 20], X[13, 19, 14, 18], X[19, 15, 20, 14],  
 X[15, 11, 16, 10], X[11, 6, 12, 7], X[2, 8, 3, 7]], Knot[10, 151] →  
 PD[X[1, 4, 2, 5], X[3, 8, 4, 9], X[12, 6, 13, 5], X[9, 17, 10, 16], X[17, 1, 18, 20],  
 X[13, 19, 14, 18], X[19, 15, 20, 14], X[15, 11, 16, 10], X[6, 12, 7, 11], X[7, 2, 8, 3]],  
 Knot[10, 152] → PD[X[1, 6, 2, 7], X[3, 8, 4, 9], X[5, 12, 6, 13],  
 X[18, 13, 19, 14], X[16, 9, 17, 10], X[10, 17, 11, 18], X[20, 15, 1, 16],  
 X[14, 19, 15, 20], X[7, 2, 8, 3], X[11, 4, 12, 5]], Knot[10, 153] →  
 PD[X[4, 2, 5, 1], X[8, 4, 9, 3], X[12, 6, 13, 5], X[13, 18, 14, 19], X[9, 16, 10, 17],  
 X[17, 10, 18, 11], X[15, 20, 16, 1], X[19, 14, 20, 15], X[6, 12, 7, 11], X[2, 8, 3, 7]],  
 Knot[10, 154] → PD[X[4, 2, 5, 1], X[8, 4, 9, 3], X[12, 6, 13, 5],  
 X[9, 17, 10, 16], X[17, 1, 18, 20], X[13, 19, 14, 18], X[19, 15, 20, 14],  
 X[15, 11, 16, 10], X[6, 12, 7, 11], X[2, 8, 3, 7]], Knot[10, 155] →  
 PD[X[1, 6, 2, 7], X[7, 16, 8, 17], X[3, 11, 4, 10], X[15, 3, 16, 2], X[5, 15, 6, 14],  
 X[11, 5, 12, 4], X[9, 18, 10, 19], X[20, 14, 1, 13], X[17, 8, 18, 9], X[12, 20, 13, 19]],  
 Knot[10, 156] → PD[X[4, 2, 5, 1], X[12, 4, 13, 3], X[7, 14, 8, 15],  
 X[18, 9, 19, 10], X[6, 19, 7, 20], X[16, 5, 17, 6], X[10, 17, 11, 18],  
 X[13, 8, 14, 9], X[20, 15, 1, 16], X[2, 12, 3, 11]], Knot[10, 157] →  
 PD[X[1, 6, 2, 7], X[10, 4, 11, 3], X[16, 11, 17, 12], X[7, 15, 8, 14], X[15, 9, 16, 8],  
 X[13, 1, 14, 20], X[19, 13, 20, 12], X[18, 6, 19, 5], X[2, 10, 3, 9], X[4, 18, 5, 17]],  
 Knot[10, 158] → PD[X[6, 2, 7, 1], X[3, 10, 4, 11], X[14, 8, 15, 7],  
 X[8, 14, 9, 13], X[9, 2, 10, 3], X[11, 18, 12, 19], X[5, 17, 6, 16],  
 X[17, 5, 18, 4], X[20, 16, 1, 15], X[19, 12, 20, 13]], Knot[10, 159] →  
 PD[X[1, 6, 2, 7], X[3, 9, 4, 8], X[18, 11, 19, 12], X[20, 13, 1, 14], X[15, 2, 16, 3],  
 X[17, 5, 18, 4], X[12, 19, 13, 20], X[5, 10, 6, 11], X[7, 15, 8, 14], X[9, 16, 10, 17]],  
 Knot[10, 160] → PD[X[4, 2, 5, 1], X[12, 4, 13, 3], X[7, 14, 8, 15],  
 X[9, 19, 10, 18], X[19, 7, 20, 6], X[5, 17, 6, 16], X[17, 11, 18, 10],  
 X[13, 8, 14, 9], X[15, 1, 16, 20], X[2, 12, 3, 11]], Knot[10, 161] →  
 PD[X[1, 4, 2, 5], X[3, 12, 4, 13], X[7, 14, 8, 15], X[18, 9, 19, 10], X[6, 19, 7, 20],  
 X[16, 5, 17, 6], X[10, 17, 11, 18], X[13, 8, 14, 9], X[20, 15, 1, 16], X[11, 2, 12, 3]],  
 Knot[10, 162] → PD[X[6, 2, 7, 1], X[16, 10, 17, 9], X[10, 3, 11, 4],  
 X[2, 15, 3, 16], X[14, 5, 15, 6], X[18, 8, 19, 7], X[4, 11, 5, 12],  
 X[8, 18, 9, 17], X[13, 20, 14, 1], X[19, 12, 20, 13]], Knot[10, 163] →  
 PD[X[6, 2, 7, 1], X[8, 3, 9, 4], X[13, 19, 14, 18], X[11, 1, 12, 20], X[19, 13, 20, 12],  
 X[2, 16, 3, 15], X[4, 17, 5, 18], X[10, 6, 11, 5], X[14, 7, 15, 8], X[16, 10, 17, 9]],  
 Knot[10, 164] → PD[X[6, 2, 7, 1], X[14, 7, 15, 8], X[15, 2, 16, 3],  
 X[5, 12, 6, 13], X[9, 19, 10, 18], X[3, 11, 4, 10], X[17, 5, 18, 4],  
 X[19, 9, 20, 8], X[11, 16, 12, 17], X[20, 13, 1, 14]], Knot[10, 165] →  
 PD[X[1, 6, 2, 7], X[7, 18, 8, 19], X[3, 9, 4, 8], X[17, 3, 18, 2], X[5, 15, 6, 14],  
 X[9, 17, 10, 16], X[15, 11, 16, 10], X[11, 5, 12, 4], X[20, 14, 1, 13], X[12, 20, 13, 19]],  
 GST48 → PD[X[1, 15, 2, 14], X[29, 2, 30, 3], X[40, 4, 41, 3], X[4, 44, 5, 43],  
 X[5, 26, 6, 27], X[95, 7, 96, 6], X[7, 1, 8, 96], X[8, 14, 9, 13],  
 X[28, 9, 29, 10], X[41, 11, 42, 10], X[11, 43, 12, 42], X[12, 27, 13, 28],  
 X[15, 31, 16, 30], X[61, 16, 62, 17], X[72, 17, 73, 18], X[83, 18, 84, 19],

X[34, 20, 35, 19], X[20, 89, 21, 90], X[92, 21, 93, 22], X[22, 79, 23, 80],  
X[23, 68, 24, 69], X[24, 57, 25, 58], X[56, 25, 57, 26], X[31, 63, 32, 62],  
X[32, 74, 33, 73], X[33, 85, 34, 84], X[35, 50, 36, 51], X[81, 37, 82, 36],  
X[70, 38, 71, 37], X[59, 39, 60, 38], X[54, 39, 55, 40], X[55, 45, 56, 44],  
X[45, 59, 46, 58], X[46, 70, 47, 69], X[47, 81, 48, 80], X[91, 49, 92, 48],  
X[49, 91, 50, 90], X[82, 52, 83, 51], X[71, 53, 72, 52], X[60, 54, 61, 53],  
X[74, 63, 75, 64], X[85, 64, 86, 65], X[65, 76, 66, 77], X[66, 87, 67, 88],  
X[94, 67, 95, 68], X[86, 75, 87, 76], X[77, 88, 78, 89], X[93, 78, 94, 79] ] }