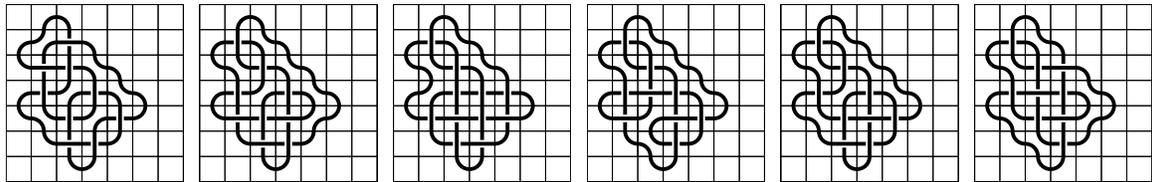


1 Mosaics from Theorems

In this section we present the mosaics for the knots referenced in the theorems. Mosaics that are marked with an * are space-efficient mosaics that have more crossings than the crossing number of the knot they represent. These images were created using a program that takes the matrix representation of a mosaic and draws the mosaic using the Python PyCairo package.

1.1 Mosaics from Theorems 3 and 4

These are the prime knots with crossing number 9 or 10, mosaic number 7, and tile number 29 or 31.



9₂₂

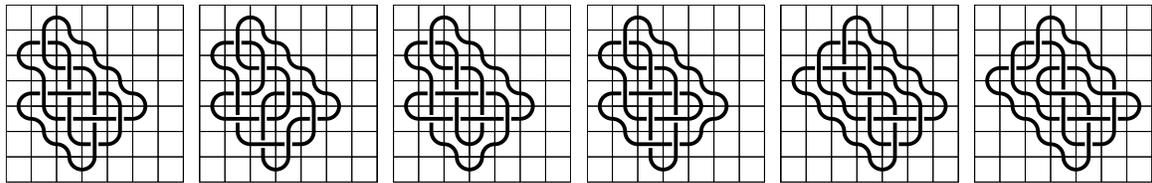
9₂₅

9₂₉ *

9₃₀

9₃₂

9₃₃



9₃₄

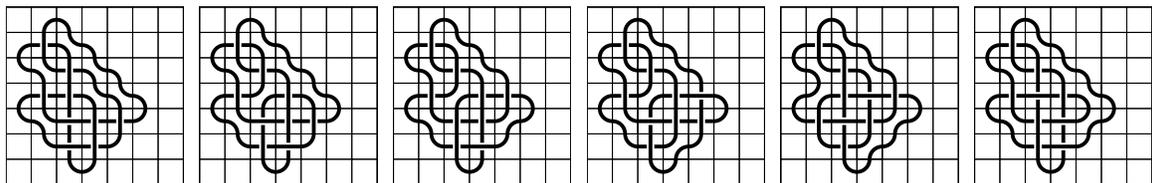
9₃₆

9₃₈

9₃₉

9₄₀

9₄₁



9₄₂

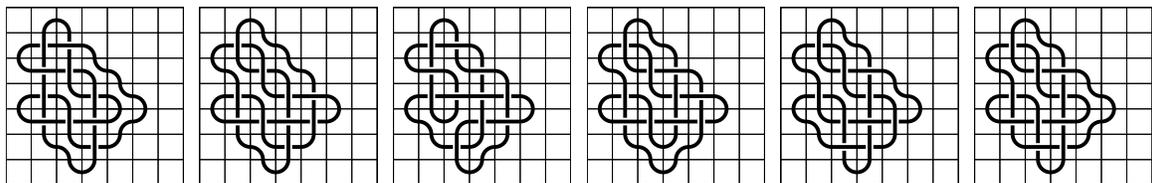
9₄₃

9₄₄

9₄₅

9₄₇

9₄₉



10₂₃

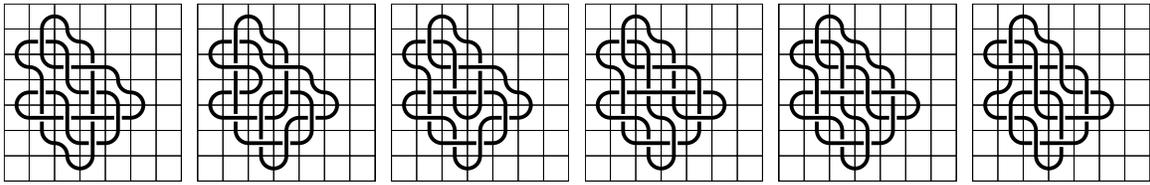
10₂₇

10₃₇ *

10₄₀

10₄₂

10₄₃



10₄₅

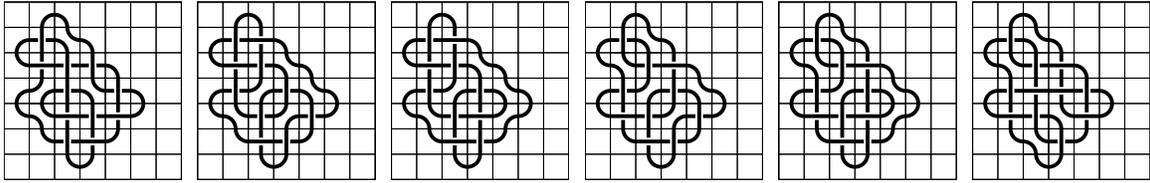
10₄₆

10₄₇

10₄₈ *

10₄₉

10₅₀ *



10₅₁ *

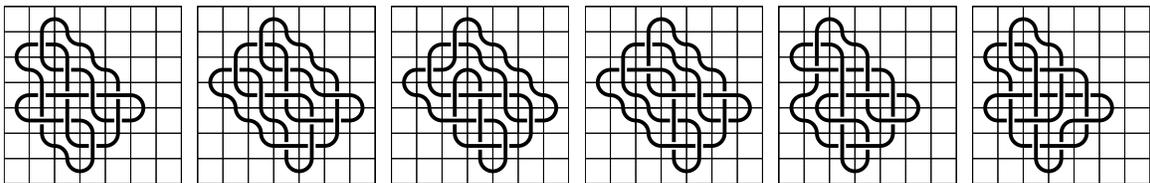
10₅₂

10₅₃

10₅₄

10₅₅

10₅₆ *



10₅₇

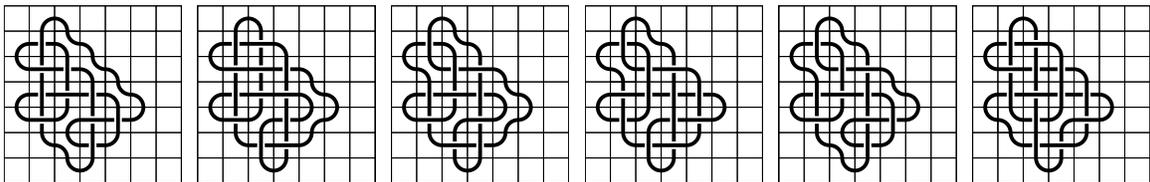
10₅₈

10₅₉

10₆₀

10₆₇ *

10₆₈ *



10₆₉

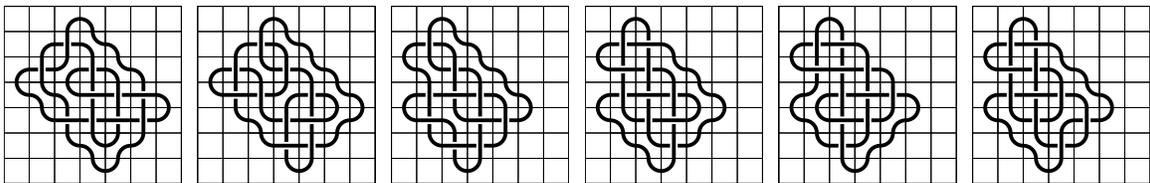
10₇₀ *

10₇₁

10₇₂ *

10₇₃

10₇₉ *



10₈₀

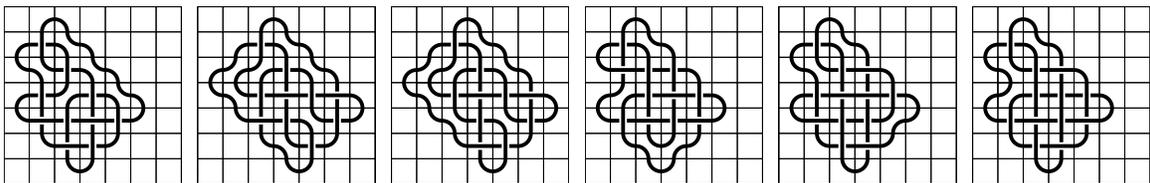
10₈₁

10₈₂

10₈₃

10₈₄ *

10₈₆



10₈₇

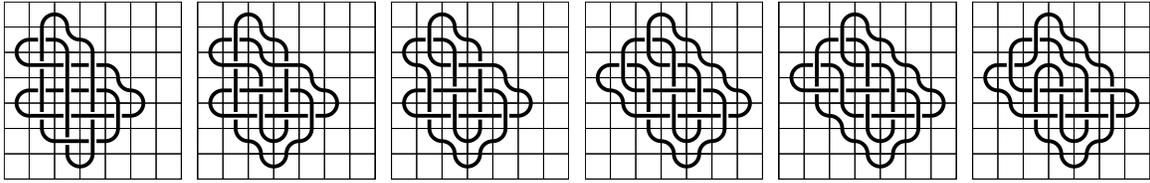
10₈₈

10₈₉

10₉₀ *

10₉₁ *

10₉₂ *



10₉₃ *

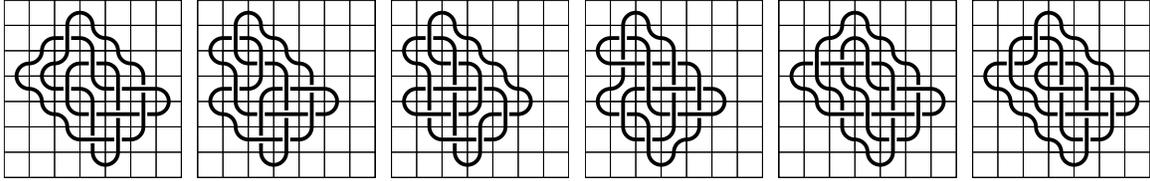
10₉₄

10₉₅

10₉₆

10₉₇

10₉₈



10₉₉

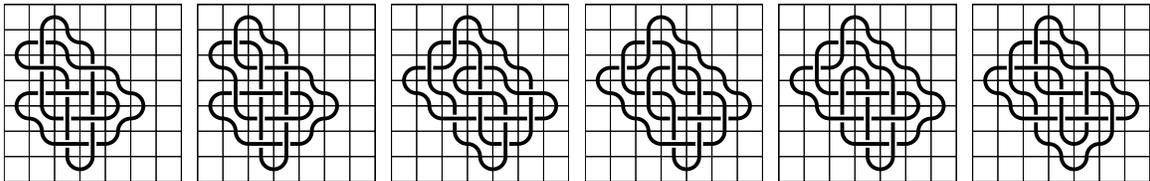
10₁₀₁

10₁₀₂

10₁₀₃ *

10₁₀₄

10₁₀₅



10₁₀₆

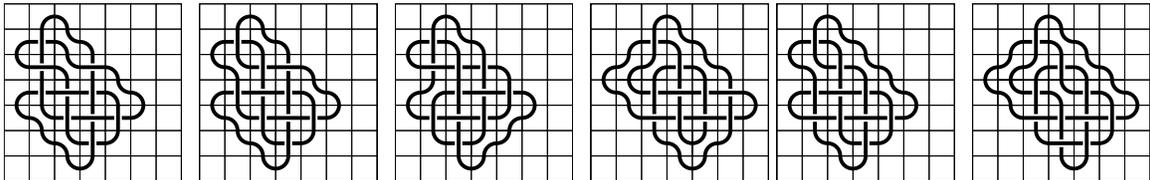
10₁₀₇

10₁₀₈

10₁₀₉

10₁₁₀

10₁₁₁



10₁₁₂

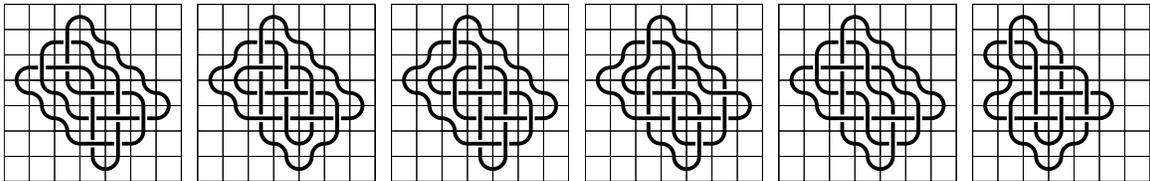
10₁₁₃

10₁₁₄ *

10₁₁₅

10₁₁₇

10₁₁₈



10₁₁₉

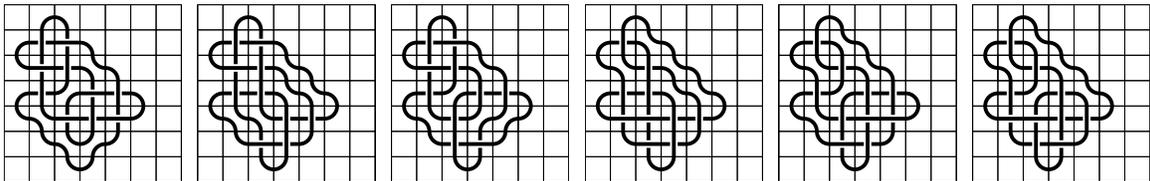
10₁₂₀

10₁₂₁

10₁₂₂

10₁₂₃

10₁₂₈



10₁₂₉

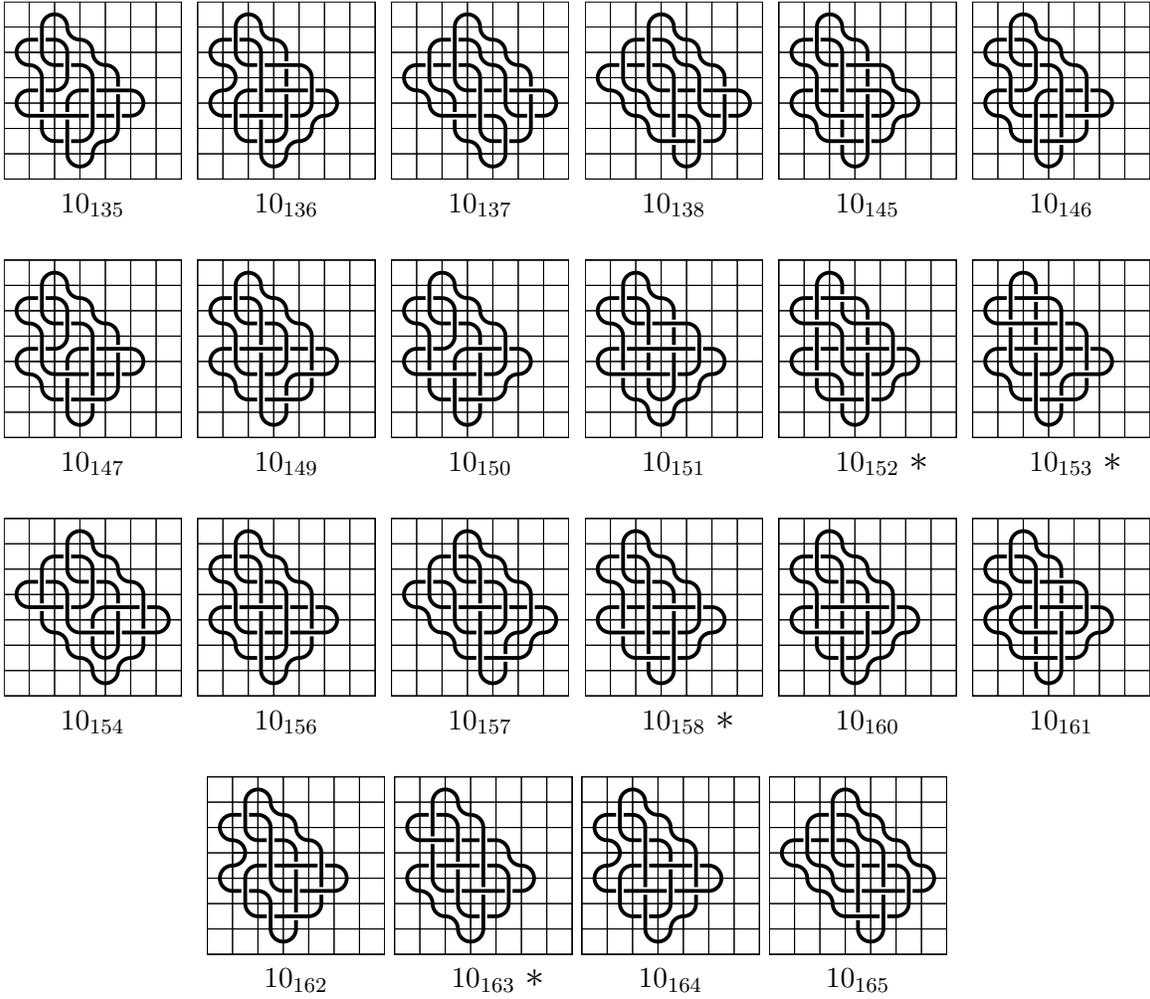
10₁₃₀

10₁₃₁

10₁₃₂

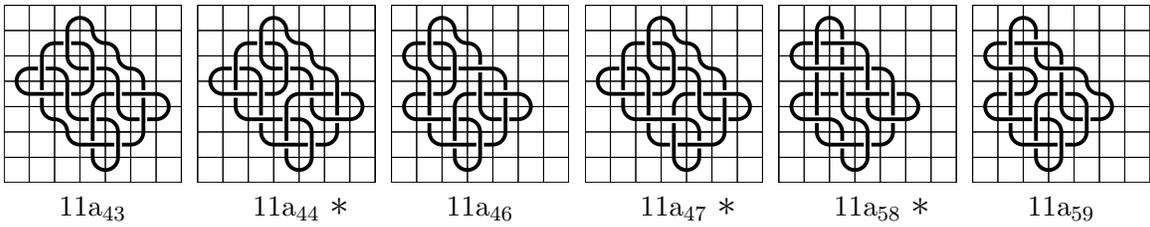
10₁₃₃

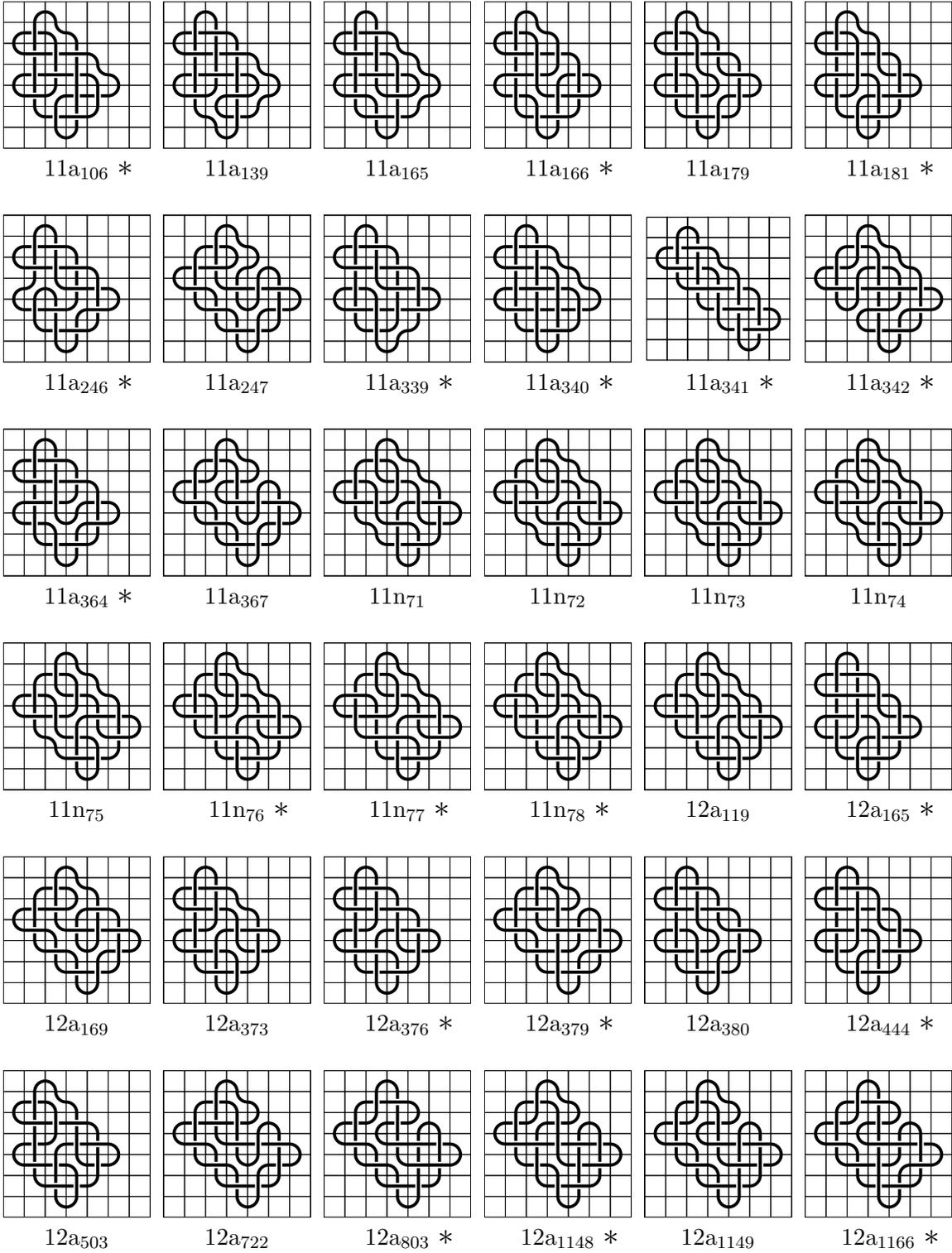
10₁₃₄

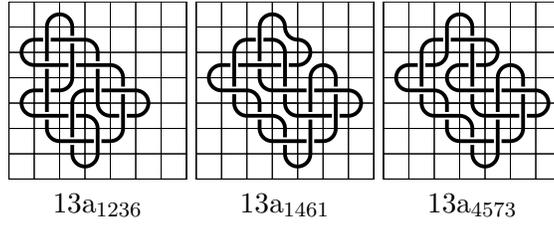


1.2 Mosaics from Theorem 5

These are the prime knots with crossing number 11 or larger, mosaic number 6 needing 32 non-blank tiles, and tile number 27, 29, or 31 realized on a 7-mosaic.

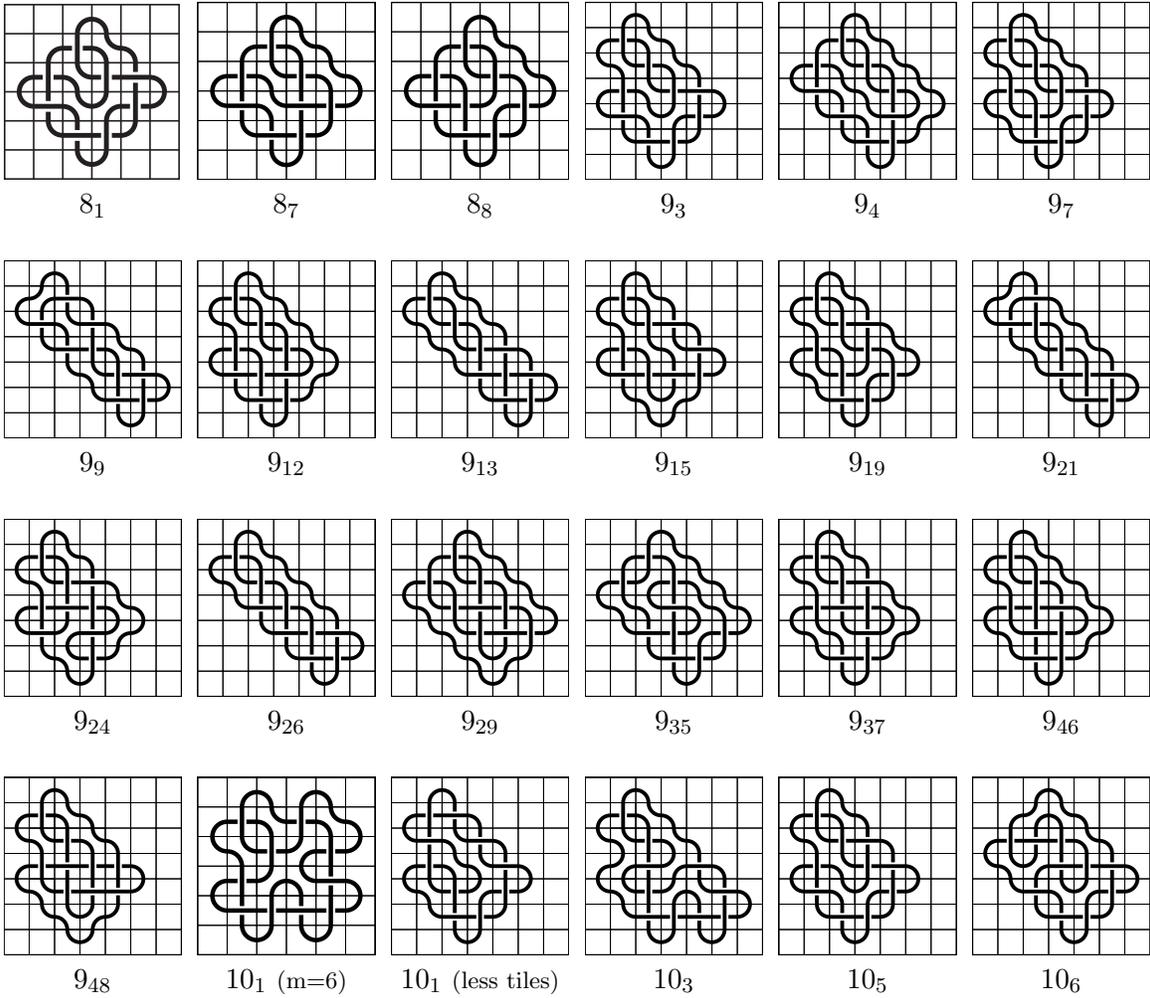


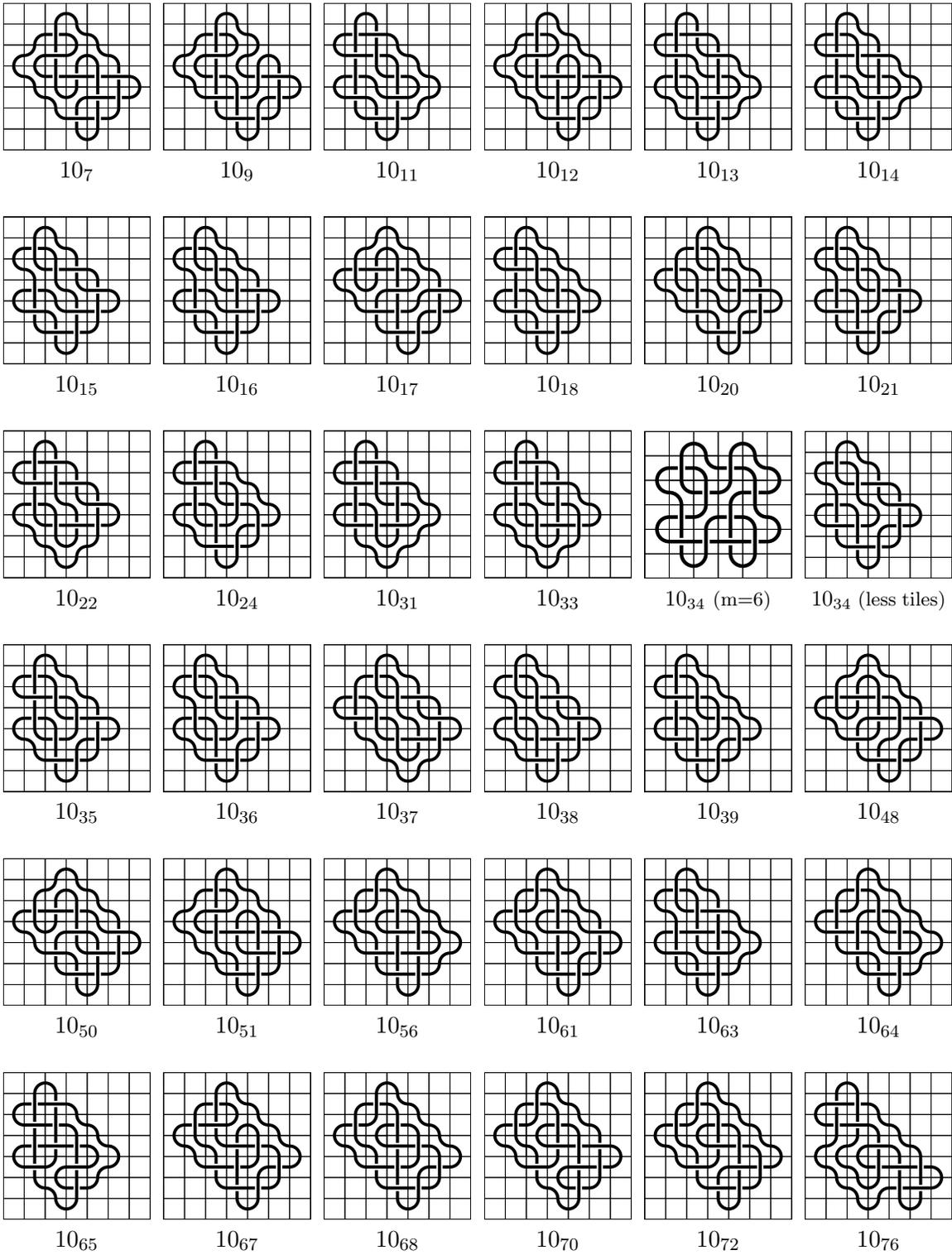


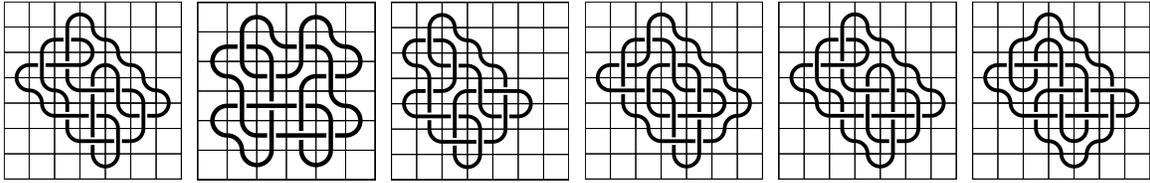


1.3 Mosaics from Theorem 7

For every knot with crossing number 10 or less, we have determined the most efficient knot mosaic in which the crossing number can be realized, both in terms of the size of the mosaic and the number of non-blank tiles. Those that were not previously provided on a minimal mosaic or a mosaic in which the tile number was realized are included here.







1077

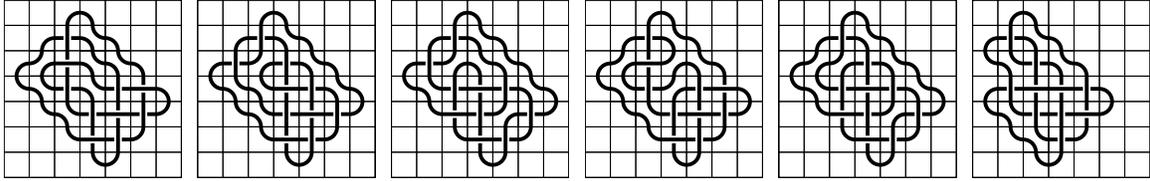
1078 (m=6)

1078 (less tiles)

1079

1084

1090



1091

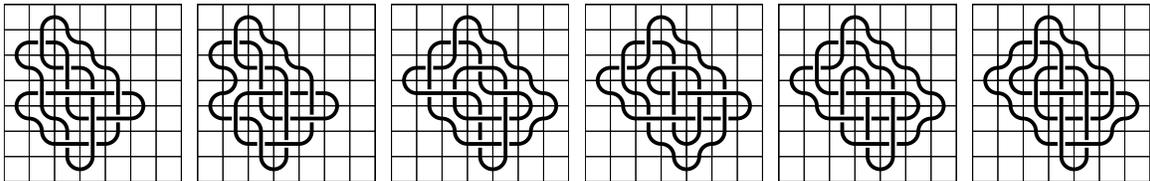
1092

1093

10103

10114

10140



10142

10144

10152

10153

10158

10163