

# Applied Analysis Seminar

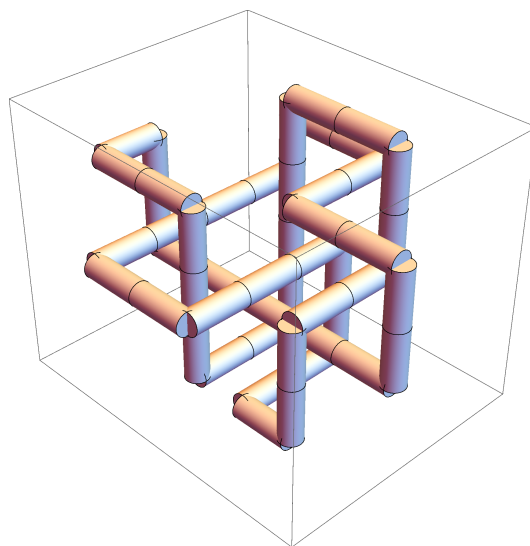
Thursday, April 20th  
14:15, SR 9

Institut für Angewandte Mathematik  
Mathematikon

## On the rope-length of a knot

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The basic question is the following: Given a rope of thickness  $r$ , how long does the rope have to be to tie a particular knot. The length of the rope is expressed in terms of  $r$  and the crossing number of the knot. Here the crossing number is the smallest number of crossing needed to draw the knot and serves as a basic measure of knot complexity. The talk is intended to give an overview of the last two decades of research on this question.