

Gastvortrag

Dienstag, 19. Dezember 2017
09.00 Uhr – 9.45 Uhr
Hörsaal 436

Dr. Philipp Reiter
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On Elastic Knots

Abstract:

In order to investigate the elastic behavior of knotted loops of springy wire, we minimize the classic bending energy regularized by a functional that essentially models impermeability of the loop. The main objective is to characterize limit configurations of energy minimizers as the regularization parameter tends to zero. These will be referred to as elastic knots.

This talk will illustrate a partial result concerning two-bridge torus knots and discuss a numerical scheme for visualization purposes.

Einladender: Simon Blatt