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Teichmüller Theory Seminar

Spacious knots

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Abstract

Brock and Dunfield showed that there are integral homology spheres whose thick parts are very thick and take up most of the volume. Precisely, they show that, given R big and r small, there is an integral homology 3-sphere whose R-thick part has volume $(1 - r)\mathrm{vol}(M)$. Purcell and I find knots in the 3-sphere with this property, answering a question of Brock and Dunfield.

Monday, 21 March 2016, 4pm

Smith Hall 204