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UNIVERSITÄT
BERN

Philosophisch-
naturwissenschaftliche Fakultät

Departement Mathematik und Statistik

Mathematisches Institut

Mathematical Colloquia

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Monday, 12 March 2018

17:15 h, Lecture Room B 78

Prof. Dr. Andras Nemethi, University of Budapest

The topology of normal surface singularities

Abstract:

A local complex normal surface singularity is characterized by its link, an oriented compact 3- manifold.

I will discuss several properties and invariants of such links.

One of them is the `lattice cohomology', which leads to certain connections with Heegaard-Floer and Seiberg-Witten invariants.

I will present also some bridges between topological and analytic invariants (Zariski's Conjecture, Durfee's Conjecture, Casson-invariant Conjecture, etc.)