Department of Mathematics
The Chinese University of Hong Kong

數學系
香港中文大學

Phone: (852) 3943 7988 ● Fax: (852) 2603 5154 ● Email: dept@math.cuhk.edu.hk (Math. Dept.)
Room 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

Colloquium

The realization problem of prism manifolds

Professor Yi Ni
California Institute of Technology

Abstract

Prism manifolds are spherical 3-manifolds with D-type finite fundamental groups. They can be parametrized by a pair of relatively prime integers p>1 and q. The realization problem of prism manifolds asks which prism manifolds can be obtained by positive Dehn surgery on a knot in S^3. We will discuss the basic idea of the solution of the realization problem. This talk is based on joint work with (subsets of) Ballinger, Hsu, Mackey, Ochse and Vafaee.

Date: 10 December 2018 (Monday)
Time: 3:00pm - 4:00pm
Venue: Room 222, Lady Shaw Building,
            The Chinese University of Hong Kong, Shatin

All are Welcome