

HOMOMORPHISMS TO 3-MANIFOLD GROUPS

Fudan Topology Seminar

Speaker: Hao Liang Sun Yat-sen University

Time: Thur, May. 19th, 15:00-17:00 Tencent Meeting ID: 861-8661-7196

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Abstract: Following Sela's theory of limit groups (of free group), we define and study limit groups of compact 3-manifold groups. We show that the family of compact 3-manifold groups are equationally noetherian, which answers a question of Agol and Liu. The main application of our result is to give a positive answer to a question of Reid, Wang and Zhou about epimorphism sequence of closed orientable aspherical 3-manifold groups. This is joint work with Daniel Groves and Michael Hull.