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Seminar

Generalizing the Cyclic Surgery Theorem

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Abstract

Given a knot in S^3 , how many integer surgeries produce an L-space that is rational cobordant to a lens space? This talk is about an ongoing project aiming to give a nice upper bound for the answer to this question. In this talk we will focus on the background and main ingredients that goes into this project, namely, Josh Greene's work on the lens space realization problem, the Aceto-Celoria-Park paper about rational cobordism with connected sum of lens spaces, and Duncan McCoy's work on alternating surgery slopes. In the last few minutes of the talk, I will informally mention some of the partial results I have so far.

Date: 12 June 2023 (Monday)
Time: 11:00am – 12:30pm (Hong Kong Time)
Venue: Room 222, LSB

All are Welcome