



Seminar/Talk

# The Heegaard Floer $d$ -invariant for rational homology spheres

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Host: Xujia Chen

The Heegaard Floer  $d$ -invariant is a numerical invariant of rational homology spheres which is analogous to the Frøyshov  $h$ -invariant from Instanton theory. In this talk, we use Zemke's recent isomorphism between lattice Floer and Heegaard Floer homology to compute the  $d$ -invariant for all rational homology spheres which arise as negative definite plumbed manifolds, verifying a 20 year old conjecture of Némethi.

**Thursday, April 16, 2026 01:15pm - 03:00pm**

Office Bldg West / Ground floor / Heinzl Seminar Room (I21.EG.101)



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