THE UNIVERSITY



OF HONG KONG

Institute of Mathematical Research Department of Mathematics

GEOMETRY SEMINAR

Instanton Floer homology for connected sums of Poincaré spheres

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Abstract

In this talk, we explain the instanton Floer homology and its Mayer–Vietoris principle to compute the integer graded Floer homology of the connected sum of a Poincaré homology sphere with itself. We then apply the Fintushel–Stern spectral sequence to deduce its regular Floer homology and observe the presence of 3–torsion in the Floer groups.

Date: November 18, 2009 (Wednesday)
Time: 2:00 – 3:00pm
Place: Room 210, Run Run Shaw Bldg., HKU

All are welcome