

1079-57-350

Ina Petkova* (ina@math.columbia.edu), Dept of Mathematics, Columbia University, Room 509, MC 4406 2990 Broadway, New York, NY 10027. *Bordered Floer homology and applications to knots.*

Bordered Floer homology is a Floer theory for manifolds with parametrized boundary that recovers Heegaard Floer homology under gluing. I will briefly describe the general bordered Floer theory, then focus on properties of the bordered Floer complex in the case of torus boundary, and talk about applications to knot theory. (Received January 17, 2012)