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Ina Petkova* (ina@math.columbia.edu). *Properties of the bordered Floer complex and applications to knot theory.*

We describe bordered Floer homology, defined by Lipshitz, Ozsvath, and Thurston. Then we discuss some properties of the bordered Floer complex in the case of torus boundary, focusing on some applications to satellites of knots. (Received January 19, 2011)