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**Sandra Di Rocco, Christian Haase and Benjamin Nill\***, University of Georgia, Math Department, Boyd Building, Athens, GA 30602, and **Andreas Paffenholz**. *Adjunction-theoretic invariants of polarized toric varieties*.

There are interesting open questions in classical adjunction theory which we hope to shed some light on by considering the adjunction theory of toric varieties from a polyhedral viewpoint. Essentially, 'polyhedral adjunction theory' is the question how a rational polytope changes, when we move the facets by a constant value inwards. In this talk we present the convex-geometric invariants corresponding to the unnormalized spectral value and the nef-value of a polarized toric variety associated to a lattice polytope. Our main result shows that an  $n$ -dimensional lattice polytope  $P$  has lattice width one, if the unnormalized spectral value is at least  $(n+2)/2$ . We explain the relation to a paper by Alicia Dickenstein, Sandra Di Rocco and Ragnie Piene and a recent joint result with Alicia Dickenstein on dual defect manifolds.

This is joint work with Sandra Di Rocco, Christian Haase, and Andreas Paffenholz. (Received January 13, 2011)