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Bin Gui* (bin.gui@vanderbilt.edu). *Energy bounds for intertwining operators of unitary vertex operator algebras.*

Intertwining operators of a vertex operator algebras (VOA) are "chiral halves" of the field operators in a 2d conformal field theory. Their geometric properties (braiding, fusion, etc.) are important for developing a tensor product theory for representations of VOAs, whereas their analytic ones are important for giving these theories a unitary structure. The energy bounds condition is such an analytic property. In this talk, I will give a general strategy to prove the energy bounds condition for intertwining operators of unitary VOAs. (Received January 16, 2018)