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Rachel N. Diethorn* (rachel.diethorn@yale.edu). *A self-dual complete resolution.*

A classical result of Buchsbaum and Eisenbud states that the minimal free resolution of the quotient by a Gorenstein ideal is self-dual. However, when one moves from finite free resolutions to infinite complete resolutions, the idea of self-duality is not so well understood. In this talk, I will give a class of modules that have self-dual complete resolutions, and I will speak briefly about the construction. I will also highlight some (co)homological consequences of the existence of such resolutions for these modules. (Received August 10, 2020)