1166-13-107 Rebecca R.G.* (rrebhuhn@gmu.edu), Neil Epstein and Janet Vassilev. A dual to basic fullness. Preliminary report.

The notion of a basically full ideal or submodule, in the context of a Noetherian local ring, was pioneered by Heinzer, Ratliff, and Rush in 2002. From this definition, we get a closure operation on m-primary submodules of a finitely generated module, called the basically full closure. We study a dual notion, called basic emptiness, which comes from an interior operation dual to basically full closure. This allows us to find dual versions of the results of [HRR02]. Along the way, we adapt previous work of two of the authors to define the dual of a non-residual closure operation. This work is joint with Neil Epstein and Janet Vassilev. (Received February 15, 2021)