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50614. *A Grothendieck Compactness Principle for the Mackey Dual Topology*. Preliminary report.

Grothendieck proved that every norm compact subset of a Banach space is contained in the closed convex hull of a norm null sequence. In a recent paper of Dowling, Freeman, Lennard, Odell, Randrianantoanina and Turett, an analogous result for weak compactness in a Banach space is shown to be equivalent to the Schur property. We will consider a similar compactness principle in the Mackey dual topology of a Banach space. (Received December 04, 2012)