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Bruno de Mendonça Braga* (demendoncabraga@gmail.com) and **Andrew Swift**. *Coarse embeddings into superstable spaces.*

Krivine and Maurey proved in 1981 that every stable Banach space contains almost isometric copies of ℓ_p , for some $p \in [1, \infty)$. In 1983, Raynaud showed that if a Banach space uniformly embeds into a superstable Banach space, then X must contain an isomorphic copy of ℓ_p , for some $p \in [1, \infty)$. In this talk, I present a joint work with A. Swift in which we show that if a Banach space coarsely embeds into a superstable Banach space, then X has a spreading model isomorphic to ℓ_p , for some $p \in [1, \infty)$. In particular, we obtain that there exist reflexive Banach spaces which do not coarsely embed into any superstable Banach space. (Received July 18, 2017)