1010-46-94 **William B. Johnson** and **Nirina Lovasoa Randrianarivony*** (lova@math.missouri.edu).
Coarse embeddings into a Hilbert space.

A coarse embedding of a metric space into another is a map which controls the distances between points uniformly on a large scale. We first show that ℓ_p $(p > 2)$ does not coarsely embed into a Hilbert space. We then build on this proof to give a characterization of the quasi-Banach spaces that coarsely embed into a Hilbert space. (Received August 22, 2005)