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On the Coarse Geometry of L^p : A Coarse Equivalence.

In recent years, coarse geometry has been on the spotlight because it was found to be useful in the progress of the Baum-Connes and Novikov conjectures. Coarse geometry deals with the large scale structure of a space as opposed to its small scale structure. This talk specifically studies the concept of a coarse equivalence of spaces regularly encountered in real analysis. We prove the existence of a non-separable space that is coarse equivalent to the separable space $L^1([a, b], m)$. (Received July 25, 2012)