1046-46-1930 Matthew Neal (nealm@denison.edu), Denison University, Granville, OH 43023, and Bernard Russo* (brusso@math.uci.edu), University of California, Irvine, CA 92697-3875. On projective rigidity of Banach spaces.

A category is *projectively stable* if the idempotent morphisms preserve the class. Notable examples: [L^1 -spaces, contractions] (Douglas 1965), [C*-algebras, completely positive maps] (Choi-Effros 1977), [JC*-triples, contractions] (Friedman-Russo 1985). A JC^* -triple is a norm closed subspace of B(H, K) which contains aa^*a whenever it contains a.

In the other direction, a category is *projectively rigid* if every sub-object of an object in the category is the image of that object by an idempotent morphism. Notable examples: $[L^1$ -spaces, contractions] (Douglas 1965), [preduals of von Neumann algebras, contractions] (Kirchberg 1993), [preduals of ternary rings of operators, complete contractions] (Ng-Ozawa 2001).

THEOREM. The category [preduals of JC*-triples with no Hilbertian summands, contractions] is projectively rigid.

Since preduals of von Neumann algebras are non-commutative L^1 -spaces, the theorem is a statement about nonassociative L^1 -spaces. (Received September 16, 2008)