Meeting: 998, Houston, Texas, SS 2A, Special Session on Representations of Algebras

998-16-377 **Ron S. Gentle*** (rgentle@mail.ewu.edu), Mathematics Dept,Kingston Hall, Cheney, WA 99004-2418. *The Torsion-Torsion Free Theory arising from an abelian exact subcategory closed under predecessors.* Preliminary report.

It is known that an abelian exact subcategory of mod A (A an artin ring) closed under predecessors gives rise to a split torsion theory in mod A ('Abelian exact subcategories closed under predecessors',I.Assem and M.Saorin)It turns out that this torsion theory forms the first two terms of a 4-fold torsion theory. This 4-fold torsion theory results as the overlap of two Tosion-Torsion Free theories.Preliminary results concerning these TTF theories will be presented. (Received March 02, 2004)