1007-16-183 Riccardo Colpi and Kent R Fuller* (kfuller@math.uiowa.edu), Department of Mathematics, University of Iowa, Iowa City, IA 52242. Tilting objects in abelian categories and quasitilted rings.
D. Happel, I. Reiten and S. Smalø initiated an investigation of quasitilted artin K-algebras that are the endomorphism rings of tilting objects in hereditary abelian categories whose Hom and Ext groups are all finitely generated over a commutative artinian ring K. Here, employing a notion of *-objects, tilting objects in arbitrary abelian categories are defined, and are shown to yield a version of the classical tilting theorem between the category and the category of modules over their endomorphism rings. This leads to a module theoretic notion of quasitilted rings and their characterization as endomorphism rings of tilting objects in hereditary cocomplete abelian categories. (Received February 21, 2005)