1052-18-33 Mark Hovey* (mhovey@wesleyan.edu), Department of Mathematics, Wesleyan University, Middletown, CT 06459. Watts' theorems and Brown representability for derived categories.
Watts' theorem in algebra determines which functors from Mod R to Mod S are tensor products. We prove an analogous theorem for functors from the triangulated derived category D(R) to D(S). In particular, we partially salvage the failure of Brown representability for homology functors on D(R). (Received July 27, 2009)