## 1158-13-190Lars Winther Christensen\* (lars.w.christensen@ttu.edu), Sergio Estrada and Peder<br/>Thompson. Singularity Categories of Sheaves. Preliminary report.

In local algebra, the quotient of the bounded derived category by the subcategory of perfect complexes is often referred to as the *singularity category*. The quotient is trivial for a regular local ring, and for a Gorenstein ring it is triangulated equivalent the stable category of Gorenstein projective modules or, if one prefers that point of view, to the homotopy category of totally acyclic complexes of projective modules. I will discuss an ongoing project in which we extend these ideas to sheaves and reconcile them with other categorical measures of the Gorenstein property. (Received March 03, 2020)