1100-13-247   **Hailong Dao** and **Eleonore Faber*** (`efaber@math.toronto.edu`), University of Toronto at Scarborough, 1265 Military Trail, Toronto, Ontario M1A 1C4, Canada, and **Colin Ingalls**. *The global spectrum and noncommutative resolutions of singularities.* Preliminary report.

Motivated by algebraic geometry, one studies non-commutative analogs of non-commutative resolutions of singularities. In short, non-commutative resolutions of commutative rings R are endomorphism rings of certain R-modules of finite global dimension. However, it is not clear which values of finite global dimensions are possible, even for rings of low Krull-dimension. This leads us to consider the so-called global spectrum of a ring, that is, the set of all possible global dimensions of endomorphism rings of Cohen-Macaulay-modules.

In this talk we will address some questions connected with the global spectrum and discuss several examples coming from algebraic geometry. (Received February 09, 2014)