1056-16-112 Gangyong Lee\* (lgy999@math.osu.edu), 231 W. 18th Ave, MA 332, Mathematics, OSU, Columbus, OH 43210, S. Tariq Rizvi (Rizvi.1@osu.edu), 4240 Campus Drive, Mathematics, Lima, OH 45804, and Cosmin S Roman (cosmin@math.osu.edu), 4240 Campus Drive, GA 420L, Mathematics, Lima, OH 45804. Idempotents and Annihilators in Endomorphism Rings of Modules. Preliminary report.

Let M be a right R-module and set  $S = End_R(M)$ . M is called a *Rickart module* if the right annihilator in M of any single element of S is generated by an idempotent in S, equivalently,  $\forall \varphi \in S$ ,  $Ker\varphi \leq^{\oplus} M$ .

*M* is called a *dual-Rickart module (or d-Rickart module)* if the image in *M* of every endomorphism of *S* is generated by an idempotent in *S*, equivalently,  $\forall \varphi \in S$ ,  $Im\varphi \leq^{\oplus} M$ .

In this talk, we will discuss properties of these two concepts and explore connections between them. Various examples and results will be presented.

(This is a joint work with S. Tariq Rizvi and Cosmin Roman. It is a Preliminary Report.) (Received July 28, 2009)