1096-47-1398 **D Drissi*** (drissi@sci.kuniv.edu.kw), Department of Mathematics, Kuwait University, P.O.Box 5969, Kuwait, Kuwait. *Resolvent algebras and Deddens algebras for rank-one and finite rank perturbations operators.* Preliminary report.

For a given operator A on a Hilbert space H, and let $D_n(A)$ be a sequence of invertible operators on H. We consider the algebras

$$B = \{T \in L(H) : \sup_{n>0} \|D_n(A)TD_n(A)^{-1}\| < \infty\}$$

First, we characterize these algebras when A is a rank-one / finite rank perturbation operator, and their commutant. This may help to generalize Lomonosov's Lemma on the hyperinvariant subspaces. (Received September 16, 2013)