1027-16-114 **Kent R Fuller*** (kfuller@math.uiowa.edu), Department of Mathematics, University of Iowa, Iowa City, IA 52242. *Quasitilted Rings.* Preliminary report.

Happel, Reiten and Smalo introduced quasitilted artin algebras as the endomorphism rings $A$ of tilting objects in hereditary locally finite abelian categories. They characterized these algebras as those with a split torsion theory $(\mathcal{X}_0, \mathcal{Y}_0)$ in mod-$A$ with $A_A \in \mathcal{Y}_0$ and proj dim $\mathcal{Y}_0 \leq 1$, and they proved that then inj dim $\mathcal{X}_0 \leq 1$ and gl dim $A \leq 2$. In a recently appearing paper with R. Colpi, we called a ring $R$ admitting a split torsion theory $(\mathcal{X}, \mathcal{Y})$ in Mod-$R$ with $R_R \in \mathcal{Y}$ and proj dim $\mathcal{Y} \leq 1$ a right quasitilted ring, and we characterized these rings as endomorphism rings of tilting objects in hereditary cocomplete abelian categories. Consequently then, inj dim $\mathcal{X} \leq 1$ and rt gl dim $R \leq 2$. Moreover we posed two questions: Are quasitilted algebras quasitilted rings? If rt gl dim $R \leq 2$ and every right $R$-module $M$ decomposes as $M = X \oplus Y$ with inj dim $X \leq 1$ and proj dim $Y \leq 1$ is $R$ right quasitilted? We shall discuss E. Gregorio's affirmative answer to the first question and a possible approach to the second question suggested by M. Saorín. (Received February 22, 2007)