

ABSTRACT. A module M_R is called *right principally quasi-Baer* (or simply *right p.q.-Baer*) if the right annihilator of a principal submodule of R is generated by an idempotent. Let R be a ring. Let α be an endomorphism of R and M_R be a α -compatible module and $T = R[[x; \alpha]]$. It is shown that $M[[x]]_T$ is right p.q.-Baer if and only if M_R is right p.q.-Baer and the right annihilator of any countably-generated submodule of M is generated by an idempotent. As a corollary we obtain a generalization of a result of Liu, 2002.