π-BAER ∗-RINGS

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ABSTRACT. A ∗-ring R is called a π-Baer ∗-ring, if for any projection invariant left ideal Y of R, the right annihilator of Y is generated, as a right ideal, by a projection. In this note, we study some properties of such ∗-rings. We indicate interrelationships between the π-Baer ∗-rings and related classes of rings such as π-Baer rings, Baer ∗-rings, and quasi-Baer ∗-rings. We announce several results on π-Baer ∗-rings. We show that this notion is well-behaved with respect to polynomial extensions and full matrix rings. Examples are provided to explain and delimit our results.

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