

Abstract: RINGS WITH CYCLIC MODULES ALMOST SELF-INJECTIVE by Surjeet Singh (Chandigarh, India) and SK Jain (Athens, Ohio, USA).

If a ring R is such that every cyclic right R -module is injective, as proved by Osofsky in 1964, R is semi-simple artinian. This has motivated others to find structure of rings R over which certain class of modules have a well defined property P . For instance, Koehler and Ahsan independently studied rings over which cyclic right modules are quasi-injective, Faith studied rings over which proper cyclic right modules are injective. Baba had introduced the concept of almost relative injectivity in 1989. If a module M is almost M -injective, then M is said to be *almost self-injective*. Any quasi-injective module is almost self-injective.

A ring R over which all cyclic right modules are almost self-injective, is called a *right cai*-ring. It is proved that a right noetherian ring R that is a right *cai*, is a finite direct sum of local uniserial rings, serial ring with the square of its radical zero, and 2×2 matrix ring

$\begin{bmatrix} D & M \\ 0 & S \end{bmatrix}$, where D is a local, noetherian, serial domain, S a serial ring with $J(S)^2 = 0$, M a

(D, S) -bimodule such that M_S is simple, ${}_D M$ is a torsion-free divisible module and $End(M_S)$ is the classical quotient ring of D , and certain other conditions.