962-13-959 **Ivo Herzog*** (herzog.23@osu.edu), 435 Galvin Hall, 4240 Campus Drive, Lima, OH 45804.

Almost algebraically compact modules. Preliminary report.

An associative ring R is said to satisfy the Camillo-Krause condition on the right if for every nonzero right ideal I of R, the cyclic right R-module R/I is artinian. It is an outstanding open problem whether all such rings are right noetherian. Considered as a left module over itself, such a ring R is satisfies the equation

$$\mathrm{Hom}_R(H(R)/R, H(R)) = 0,$$

where $R \subseteq H(R)$ denotes the pure-injective envelope of R. We call any left R-module that satisfies the equation almost algebraically compact and we note that if R is a fully bounded noetherian ring, then it is almost algebraically compact as a module over itself. Given a ring R that is almost algebraically compact over itself, the equation above implies that the pure-injective envelope $R \subseteq H(R)$ admits a ring structure extending that of R. The proof mimicks the classical proof of the existence of the maximal ring of fractions for certain classes of rings. We consider some reasonable ring theoretic conditions on R under which the projective indecomposable summands of $H(R)$ correspond under elementary duality to those injective indecomposable right R-modules that are envelopes of simple right R-modules. (Received September 29, 2000)