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Title: Problems on Jordan type and Artinian algebras

Abstract: Let ℓ be an element in the maximal ideal of an Artinian algebra A . Recall that the Jordan type P_ℓ of the multiplication map $m_\ell : A \rightarrow A$ is the partition giving the sizes in the Jordan block decomposition for m_ℓ , which is nilpotent. The Jordan type in general gives more information than whether ℓ is weak or strong Lefschetz. We first give an overview of some directions of research about Jordan type that have been pursued in the past year, by several groups. We then propose some open problems.