



The ARCS Seminar

Generalizations of Artinian Rings and Noetherian Rings — A Preliminary Report

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Abstract: In this talk, we consider generalized artinian and noetherian rings possessing smooth well-ordered descending, as well as ascending, chains of one-sided ideals, having transfinite length bounded by a fixed infinite ordinal κ . Some of the classical theorems by John Beachy, Carl Faith, Patrick Smith, and Peter Vamos characterizing artinian rings by annihilator conditions are extended to these generalized artinian rings. Likewise, the theorems of H. Bass and Z. Papp on characterizing noetherian rings by means of injective modules are extended to the generalized noetherian rings. Examples are constructed to illustrate the extended class of rings and the limitations in investigating them.

Time and Place: Wednesday, October 16 from 4:30–5:30PM (Mountain Time Zone) in ENG 239



The Rings and Wings Seminar is an activity of ARCS.

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