



Rings & Wings

math.uccs.edu/algebra-seminar

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Title: On Piecewise Noetherian Rings

Abstract: Goldie's notion of the reduced rank of a Noetherian module has been used to give new proofs of some standard results on Noetherian rings. More generally, the reduced rank can be defined using quotient categories. The question I'm looking at is this: does the class of rings with reduced rank (on all factor rings) provide a useful generalization of the class of left Noetherian rings? It seems to be a reasonable context in which to study universal localization, and I would really like to be able to prove that a universal localization of a piecewise Noetherian ring is again piecewise Noetherian.