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Lance Bryant* (lebryant@ship.edu), 1871 Old Main Dr., Shippensburg, PA 17257. *Filtered Numerical Semigroups and Applications to One-Dimensional Rings.*

In this talk, filtrations in numerical semigroups will be considered. Applications are made to the study of one-dimensional Cohen-Macaulay local rings, particularly one-dimensional analytically irreducible Noetherian local domains. We are primarily interested in the Cohen-Macaulay and Gorenstein properties of associated graded rings of filtrations. (Received August 31, 2009)