1154-13-2693   **Lance Edward Miller***, Department of Mathematical Sciences, 309 SCEN, University of Arkansas, Fayetteville, AR 72701, and **William D. Taylor**, 3500 John A. Merritt Boulevard, Nashville, TN 37209. *Lower bounds on s-multiplicity.*

W. D. Taylor introduced an interpolation between Hilbert-Samuel and Hilbert-Kunz multiplicity of a local positive characteristic ring by giving a continuous family of multiplicity functions based on a parameter s > 0. In this talk, we discuss this an extension of the Watanabe-Yoshida minimality conjecture to the s-multiplicity setting as well as the s-multiplicity function for 2 minors of a generic matrix. (Received September 17, 2019)

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