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**Joseph Gubeladze\*** ([soso@math.sfsu.edu](mailto:soso@math.sfsu.edu)), Department of Mathematics, San Francisco State University, San Francisco, CA 94132. *Big Witt vectors and K-theory of toric varieties.*

The Bloch-Stienstra-Weibel action of big Witt vectors on higher  $K$ -groups of affine monoid rings provides a deep insight into these mysterious groups. It was used in the proof of the s. c. nilpotence conjecture for toric varieties over number fields and, more recently, played a crucial role in extending the result to all regular coefficient rings containing  $\mathbf{Q}$ . In the talk the main result will be stated and the globalization process for the coefficient ring will be outlined. If time permits, a more refined conjectural description of  $K$ -theory of toric varieties, based on the big Witt vectors, will be discussed. (Received July 31, 2007)