1057-13-62 **Stefan O Tohaneanu***, Department of Mathematical Sciences, The University of Cincinnati, P O Box 210025, Cincinnati, OH 45221-0025. *Gorenstein Evaluation Codes.*

Let Γ be a set of *n* points in \mathbb{P}^m . The evaluation code $C(\Gamma)_a$ is the linear code of length *n* obtained by evaluating the homogeneous polynomials of degree *a* at all the points of Γ . In this talk we present a lower bound for the minimum distance of $C(\Gamma)_a$ for the case when Γ is an arithmetically Gorenstein nondegenerate reduced zero-dimensional scheme in \mathbb{P}^m . The bound is expressed in terms of the socle degree of the Artinian reduction of the ideal of Γ , and it generalizes the result of Gold-Little-Schenck when Γ is a reduced complete intersection zero-dimensional scheme. (Received January 01, 2010)