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Guy David and **Marie Snipes***, snipesm@kenyon.edu. *A Non-Probabilistic Proof of the Assouad Embedding Theorem with Bounds on the Dimension.*

We give a non-probabilistic proof of a theorem of Naor and Neiman that asserts that if (E, d) is a doubling metric space, there is an integer $N > 0$, depending only on the metric doubling constant, such that for each exponent $\alpha \in (1/2, 1)$, one can find a bilipschitz mapping $F: (E, d^\alpha) \rightarrow \mathbb{R}^N$. (Received January 28, 2014)