1120-42-205 **David R Larson** and **Sam L Scholze*** (scholzes@math.tamu.edu), Department of Mathematics, Mailstop 3368, Texas A&M University, College Station, TX 77840-3368. Bridging frame erasures.

In this talk, I will discuss a method of reconstruction from frame coefficient erasures which is more efficient than older methods. While older methods require an $n \times n$ matrix inversion, where n is the dimension of the underlying Hilbert space, the new method, called Nilpotent bridging, requires only an $L \times L$ matrix inversion, where L is the size of the set of erased frame coefficients. To recover from erasures indexed by Λ , the method of Nilpotent bridging uses frame coefficient information from a subset, Ω of the non-erased coefficients satisfying $|\Lambda| = |\Omega|$. I will discuss this method in detail. I will also discuss the skew-spark property and why most frames satisfy this property. The full skew-spark property guarantees that any bridge set we choose of the same size as the erasure set will work for Nilpotent bridging. This is joint work with David Larson. (Received February 22, 2016)