

Meeting: 999, Nashville, Tennessee, SS 2A, Special Session on Wavelets, Frames, and Sampling

999-42-189 **Eric S Weber*** (esweber@iastate.edu), Department of Mathematics, 400 Carver Hall, Ames, IA 50011. *Frames and Data Security*.

Two algorithms for using frames to “hide”, or secure, data has been proposed, one by ourselves with students Ryan Harkins and Andrew Westmeyer, and another by Miotke and Rebollo-Neira (“Oversampling of Fourier Coefficients for Data Hiding”, ACHA vol. 16 (2004), pg. 203–207.) Work with students Ghann Bhatt, Lori Kraus, and Laura Walters analyzes these methods, and shows that when they are viewed as cryptographic algorithms, they do not work. (Received August 23, 2004)