

Meeting: 1004, Bowling Green, Kentucky, SS 5A, Special Session on Advances in the Study of Wavelets and Multi-wavelets

1004-42-267 **Fumiko Futamura*** (fumiko.futamura@vanderbilt.edu), 1326 Stevenson Center, Nashville, TN 37240. *On localized frames*. Preliminary report.

The concept of localization for frames was introduced independently by two groups for two different purposes: one was concerned with constructing Banach frames for particular Banach spaces associated to a particular Riesz basis and the other with understanding the density of frames, and how this relates to their excess. In an effort to unify their conclusions, we introduce a more generalized notion of localization. This notion, in the case of l^1 -self localization, comes with a natural equivalence class structure. (Received January 25, 2005)