



DoNuTS Technical Meeting

Time: 1600 Wednesday, 12 March 2008

Place: NE Conference Room, 4101 Etcheverry

Speaker: Micah Johnson, Lawrence Livermore National Lab

Subject: Nuclear Resonance Fluorescence for Isotopic Mapping

Each year a plethora of containers enter the US with little to no inspection for contraband. Every year waste barrels are collected without knowing what, if any, special nuclear material is contained in the barrels. These waste barrels may be buried in bunkers not specifically rated for SNM. Current systems such as radiographs offer no more than an ambiguous density silhouette of a containers contents. In this talk I will present a system being developed at LLNL to isotopically map containers. Recent experimental results on the feasibility of such a system will be presented.