



DoNuTS Technical Meeting

Time: 1600 Wednesday, 16 September 2009

Place: NE Conference Room, 1106 Etcheverry

Speaker: Charles Yeamans, UC Berkeley Nuclear Engineering

Subject: Progress in DoNuTS Pelletron Retrofit Operations

Over the past 18 months, activity in the Nucleonics Laboratory in Etcheverry Hall has focused on delivery and retrofitting of a Pelletron particle accelerator. Originally a 7 MeV tandem deuteron accelerator, this machine is being retrofitted as a 3.5 MeV electron accelerator. When completed, the machine will be used for nonproliferation technology development (Prof. Ed Morse), nuclear resonance fluorescence cross-section measurement (Prof. Eric Norman), and materials research via positron annihilation doppler spectrometry (Prof. Brian Wirth). This talk will present completed and ongoing activities related to Pelletron retrofitting, detail necessary future steps and discuss potential experimental configurations for the completed system.