First Look at Early Conditioning in a TiN-coated Aluminum Vacuum Chamber

Jim Crittenden & John Sikora

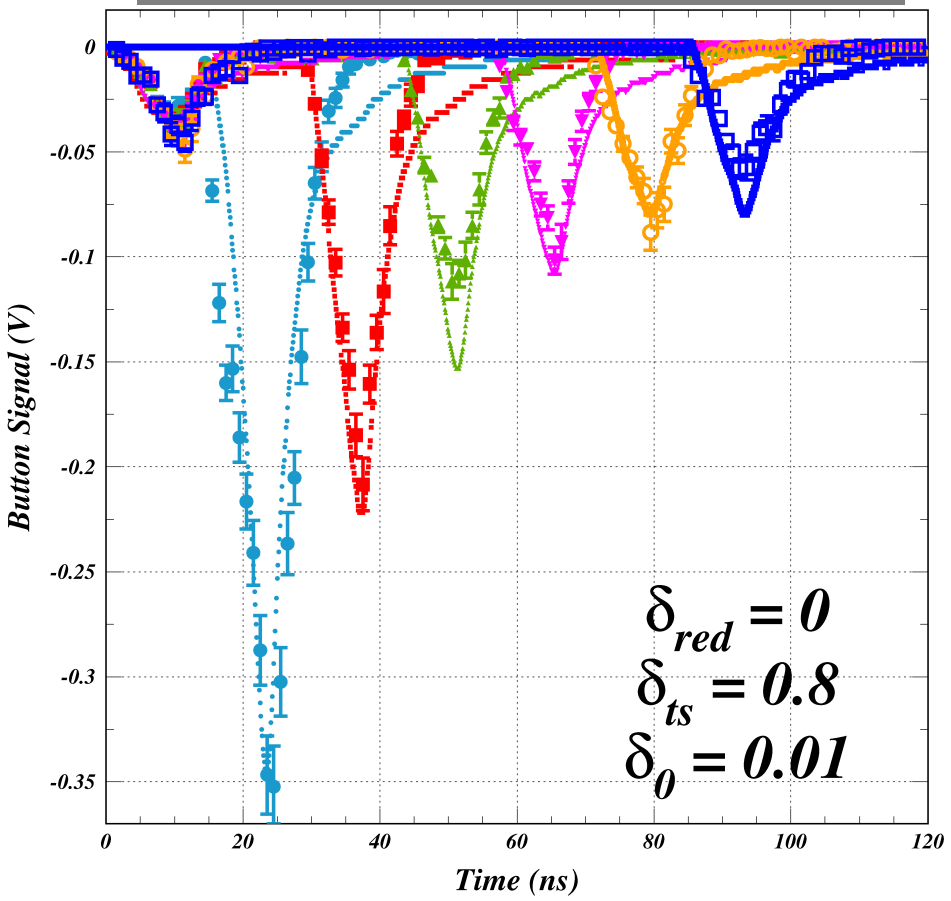
Cornell Laboratory for Accelerator-Based Sciences and Education

CESRTA General Meeting

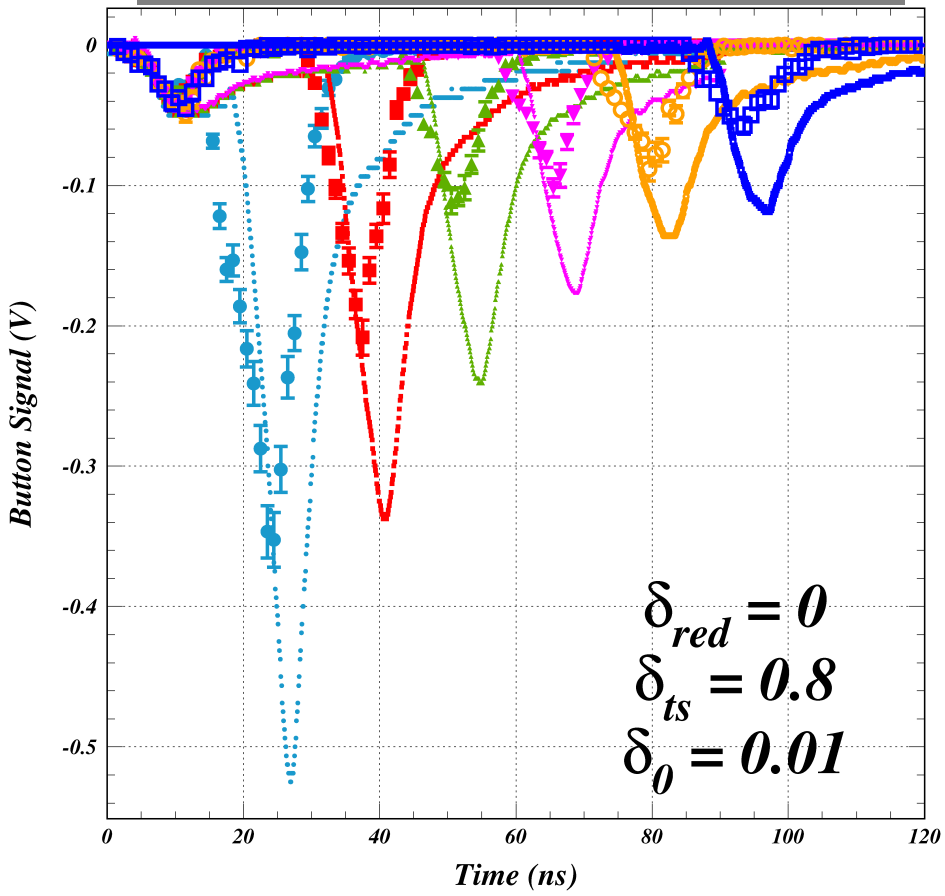
24 August 2012

Witness Bunch Study for TiN-coated Aluminum
Compare today's measurements to those of 6/18/2011
15W 5.3 GeV 5 mA/bunch e+ 14-ns spacing

Present best model for 6/18/11



Same model with 8/22/12 measurements on unconditioned TiN



Initial indication is the the quantum efficiency is similar, but there is much more cloud due to SEY.

Conditioning comparison: 5.3 GeV e+ 15W TiN