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

--- Now including 3-ns time shift correction applied to the right figure on slide 2 consistent with slide 3 ---

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Present best model for 6/18/11

\[ \delta_{red} = 0 \]
\[ \delta_{ts} = 0.8 \]
\[ \delta_0 = 0.01 \]

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

\[ \delta_{red} = 0 \]
\[ \delta_{ts} = 0.8 \]
\[ \delta_0 = 0.01 \]

Initial indication is the quantum efficiency is similar, but there is much more cloud due to SEY.
Conditioning comparison: 5.3 GeV e+ 15W TiN

6/18/11 SR dose: $1.14 \times 10^{25} \gamma/m$
8/22/12 SR dose: $1.39 \times 10^{26} \gamma/m$
8/23/12 SR dose: $7.13 \times 10^{21} \gamma/m$