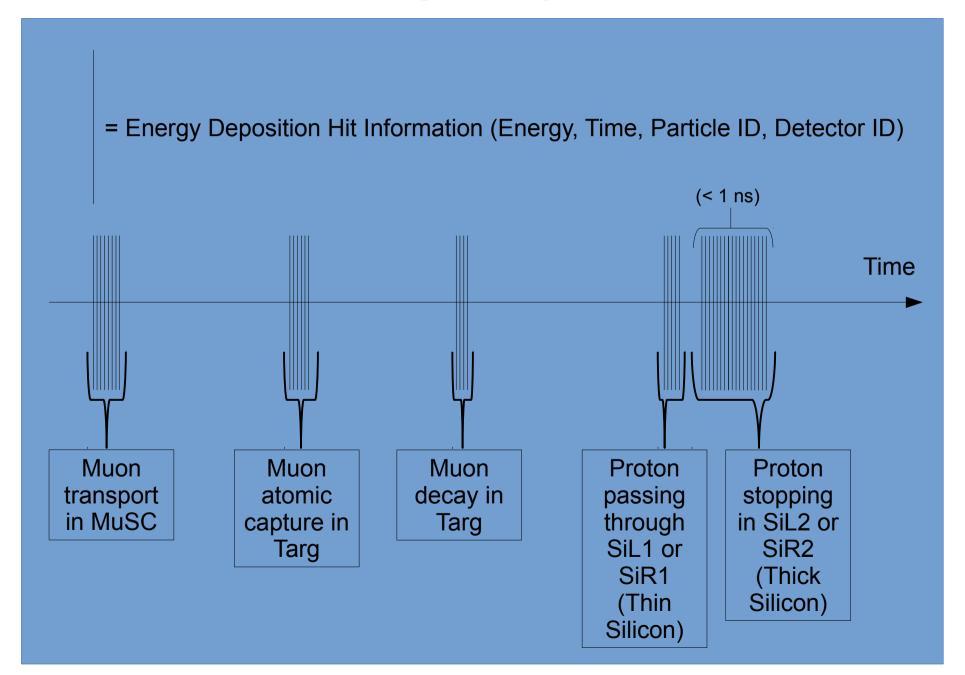
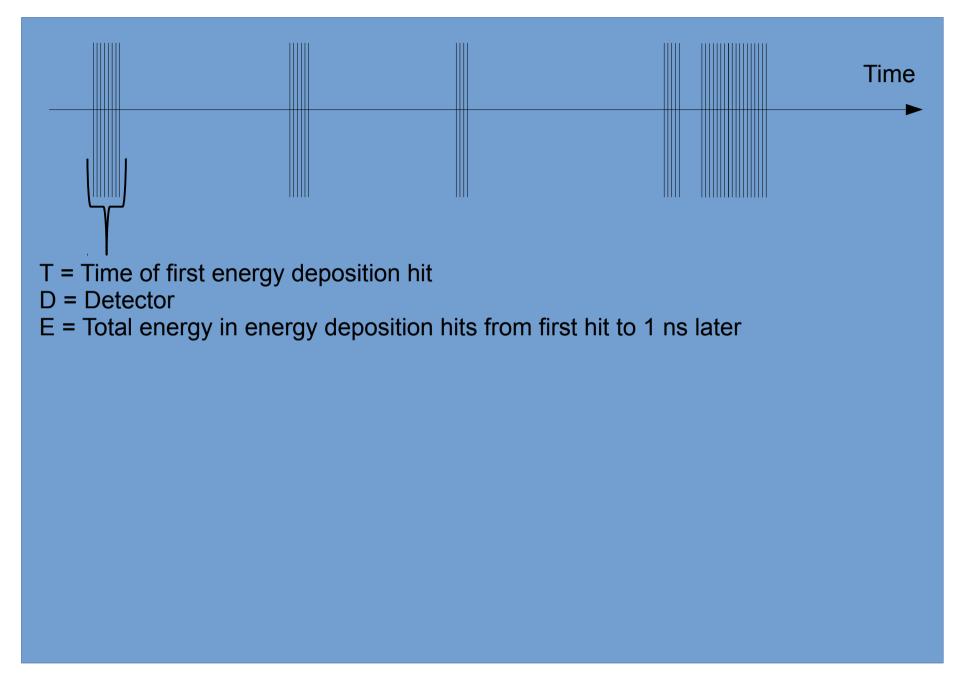
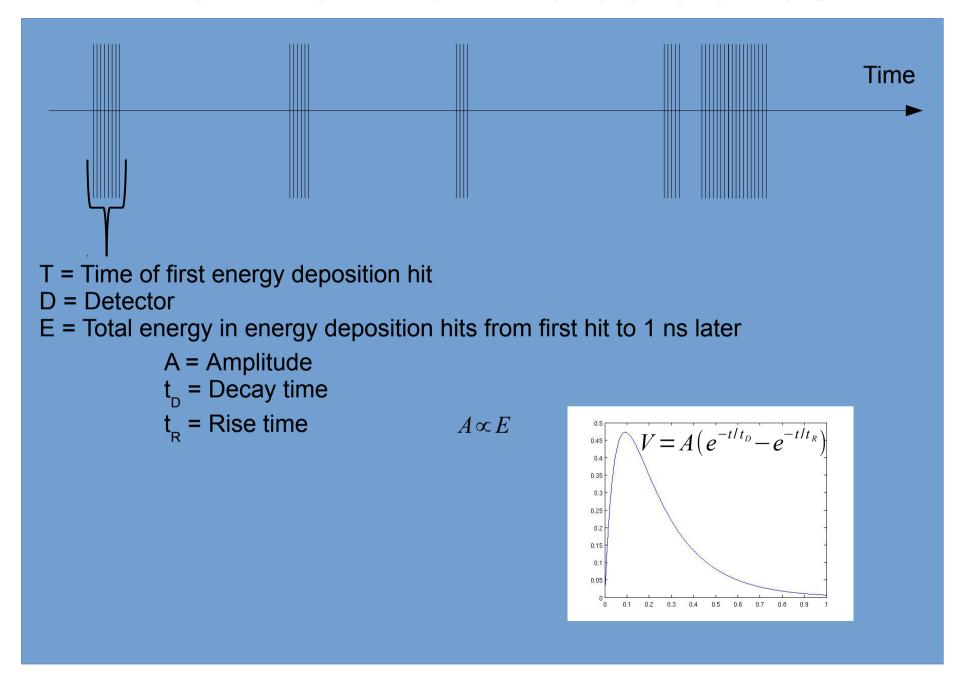
Pseudo-Data

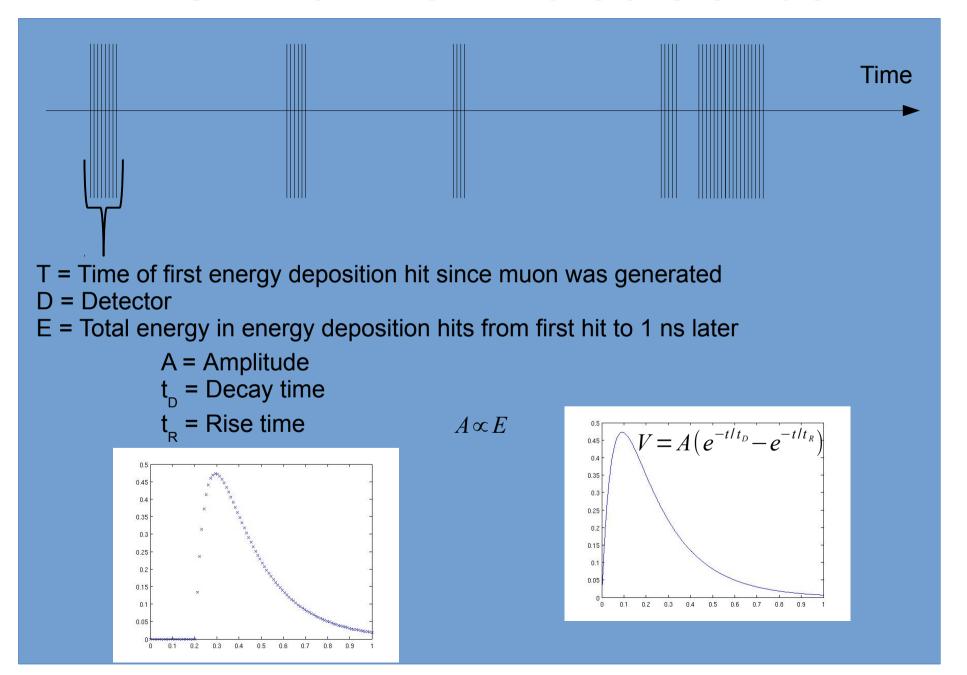


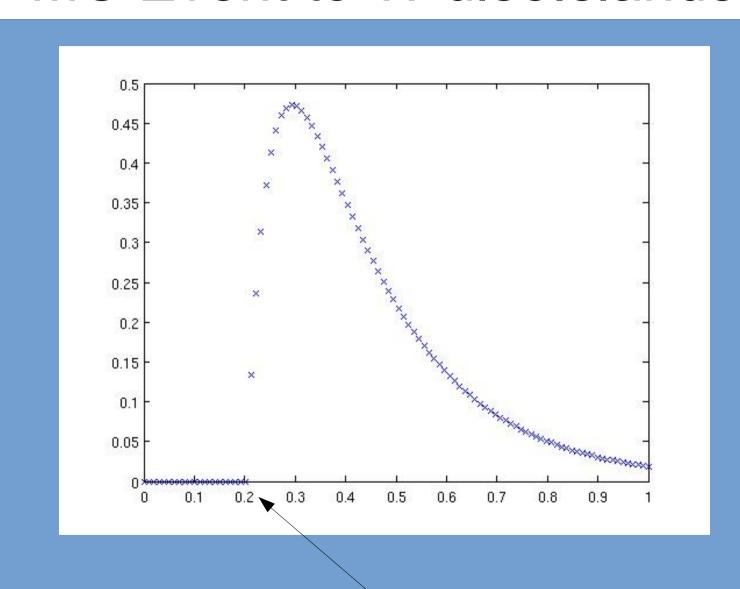
MC Event











TPulseIsland:

- → Vector of samples
- → Time of first tick
- → Tick Length (1 / Dig. Freq.)
- → Bank name

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- → Vector of samples
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Time of First Tick

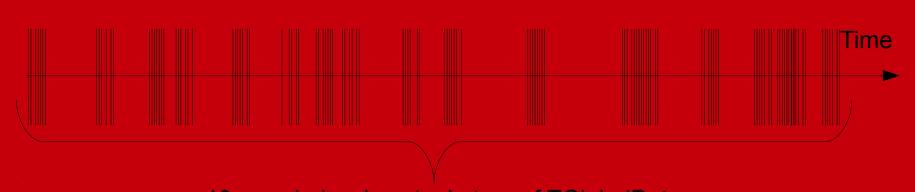
· For each new MC event, add a random time chosen from

$$f_{beam}e^{-tf_{beam}}$$

to all energy deposition hit times in that MC event

- Collect all TPulseIslands into vectors corresponding to detectors, which are not necessarily time ordered (different from Peter W.'s step)
- Stop when cumulative time is greater than 10 ms, package it up, then restart

TPulseIsland Vector Map



10 ms window is entry in tree of TGlobalData

TGlobalData = Map of bank names (detectors) to vectors of TPulselslands

Bank List

- · MuSC
- · Targ
- · Targ TFA
- · Veto
- · SiR1
- · SiR1 TFA
- · SiR2
- · SiR2 TFA
- · ScR
- · SiL1
- · SiL1 TFA
- · SiL2
- · SiL2 TFA
- · ScL

Input Parameters

- · Rise times
- · Decay times
- · Polarity
- · Threshold
- · Pedestal
- Energy to ADC
 - · Maximum energy
 - · Bits

TPulseIsland Vector Map to Event

Just will follow current setup as laid out in Peter W's elog (86) post of his, Michael's, and Volodya's slides