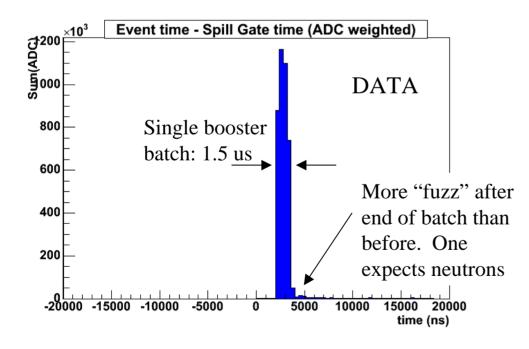
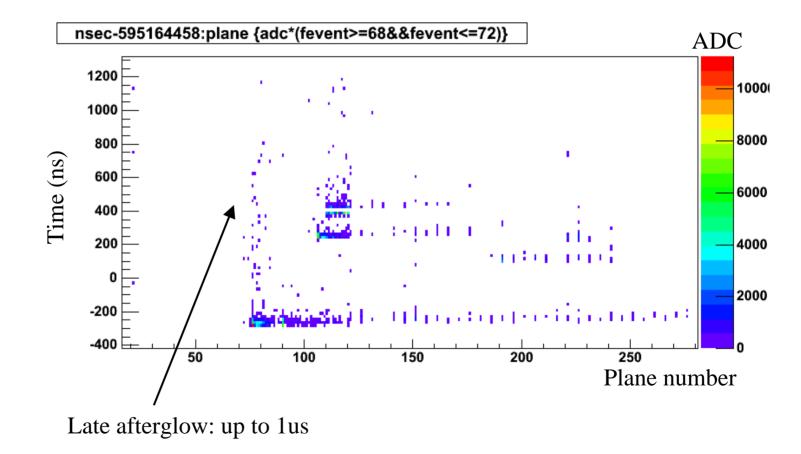
Data/MC comparison of NearDet Beam Event Time Structure

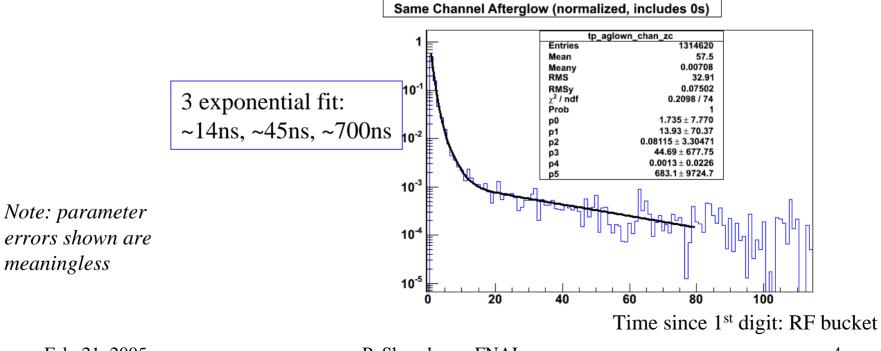
- Beam data taking at ND:
 - SGATE up to ~19us of untriggered data
 - 1 digit per RF bucket per channel (19ns)
 - $\sim 1/6$ P.E. readout threshold



ADC weighted time of all digits, relative to SGATE start • Typical late afterglow:

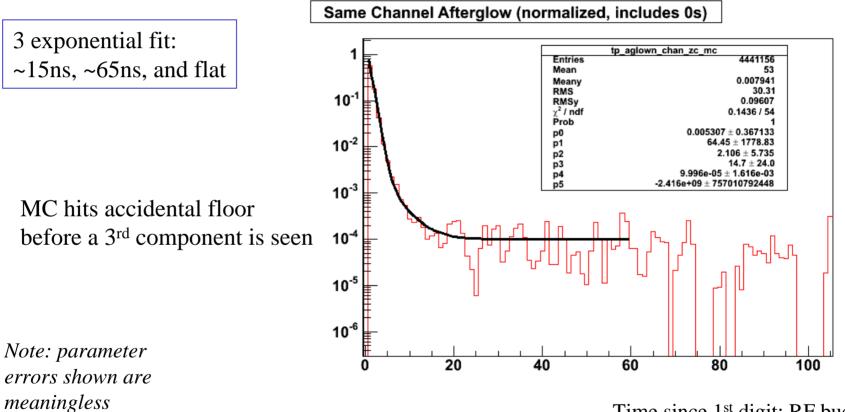


- Characterize the afterglow in DATA:
 - Easiest approach: look at ratio of ADC in a digit, relative to 1st digit in the same channel above 1000 counts
 - As a function of time from that 1st digit



• MC:

– Alysia's 1.12 pseudo-ME



Time since 1st digit: RF bucket

Do We Care?

People with more reco experience than me can judge the importance of the effect

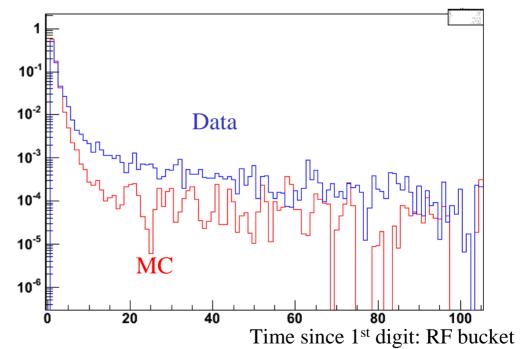
Suggestions:

•It may be worth investigation into MC neutron generation, regardless

•More thorough "interactionbased" study – including all channels as function of distance from vertex

•Anyone interested?

Same Channel Afterglow (normalized, includes 0s)



P.S. 6 Batches

