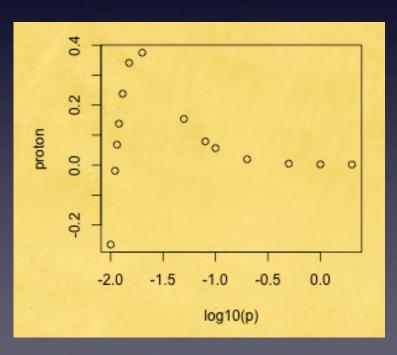
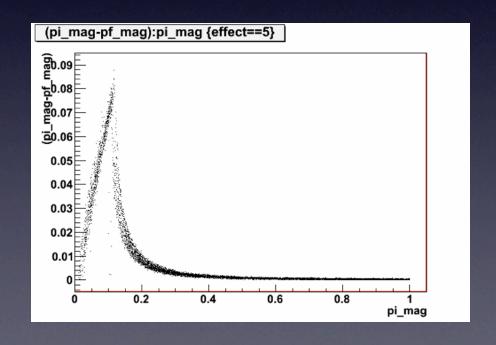
Energy Loss Problem

- Noticed by John Walsh
 - low-momentum protons leaving very little energy in Svt layers
- Reproduced in unit tests of PacDetEffect

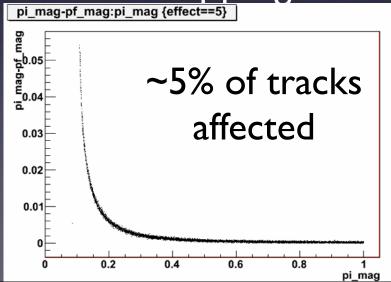




Explanation + Fix

- Energy loss computed in 2 steps
 - Mean energy loss (<= total kinetic energy)
 - (Gaussian) smearing
- If mean ΔE = KE (stopping), smeared ΔE < KE, particle was allowed to continue

• Fix is to test for stopping before smearing



David Brown, LBNL

FastSim meeting