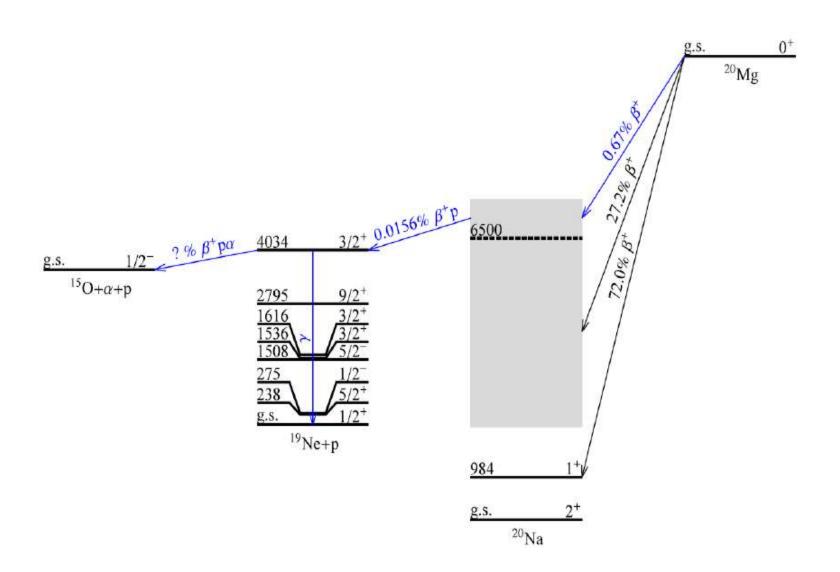
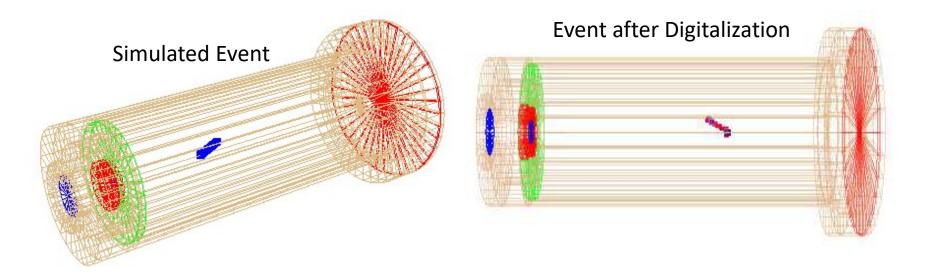
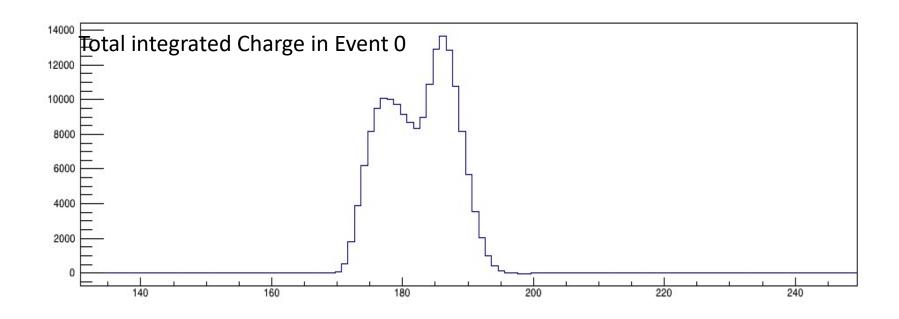
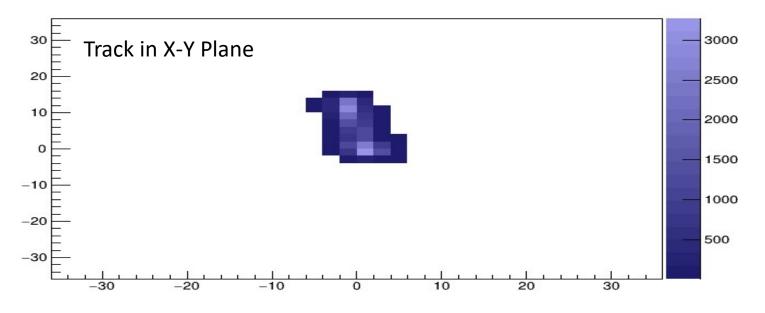
20Mg Decay Scheme

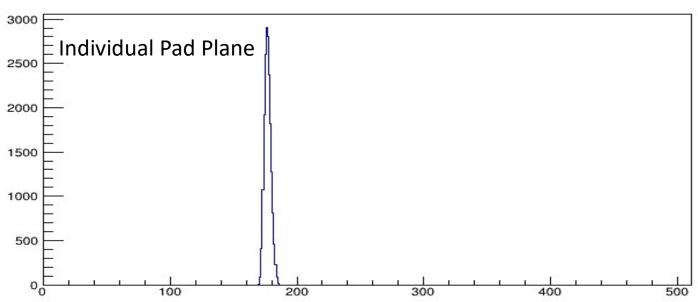


p (1.2 MeV) + α (0.506 MeV) event

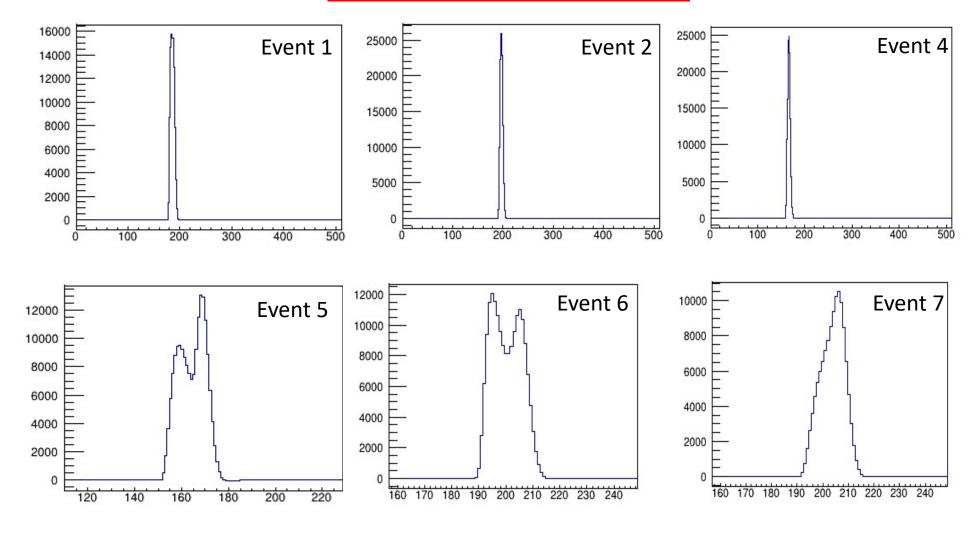


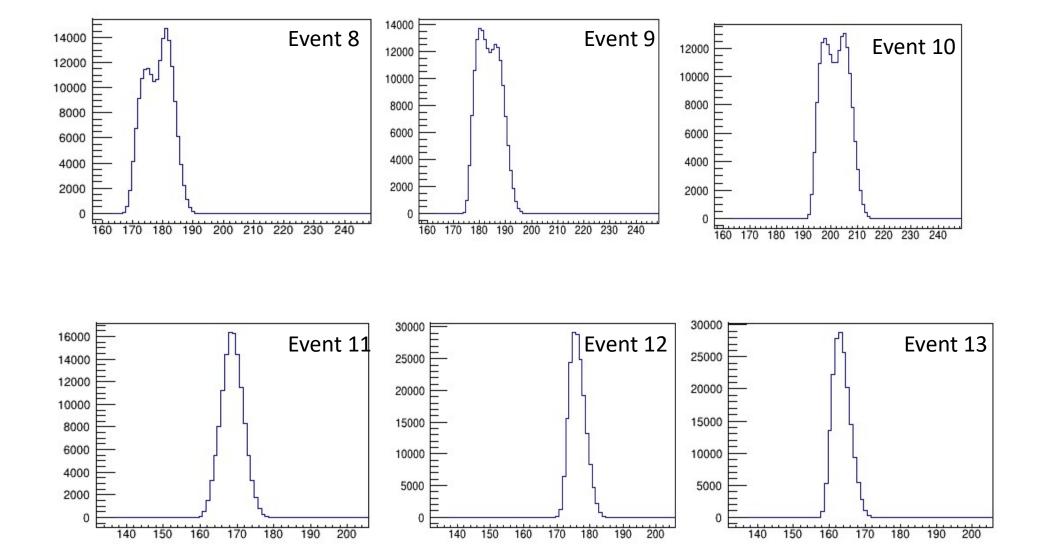




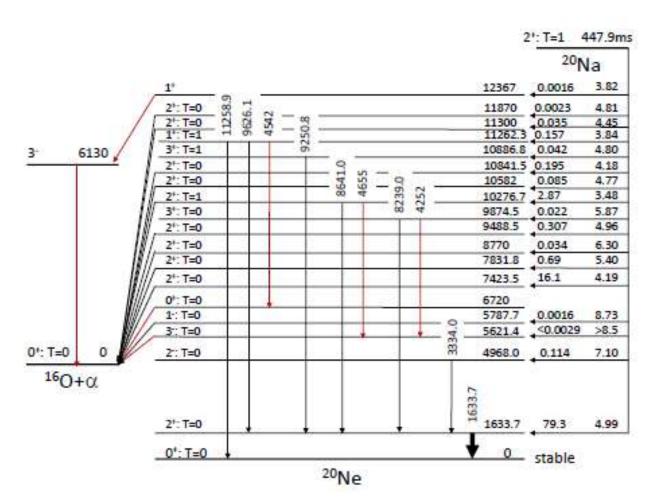


Total Integrated Charge in each Event



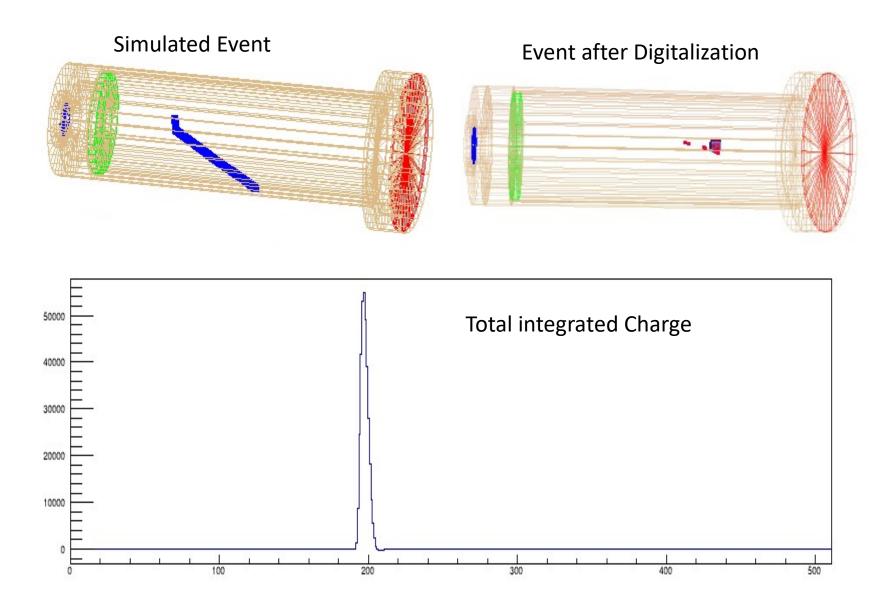


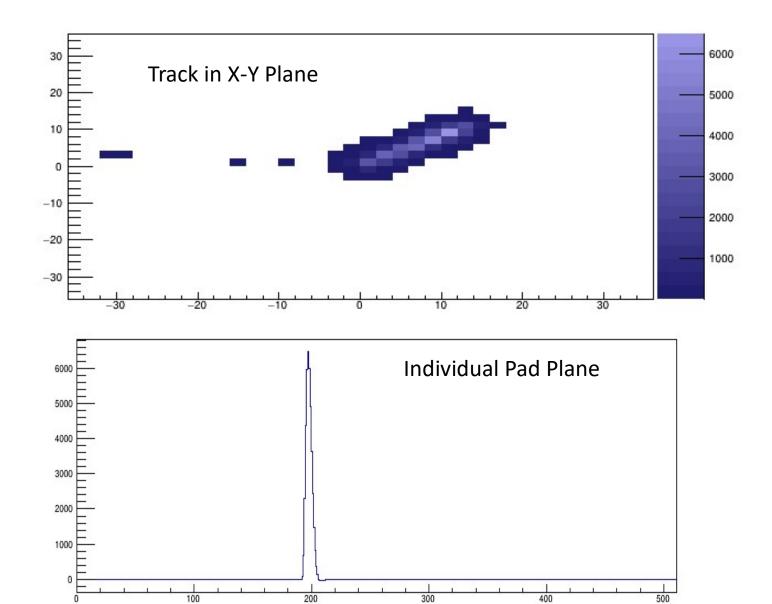
Decay Scheme of ²⁰Na



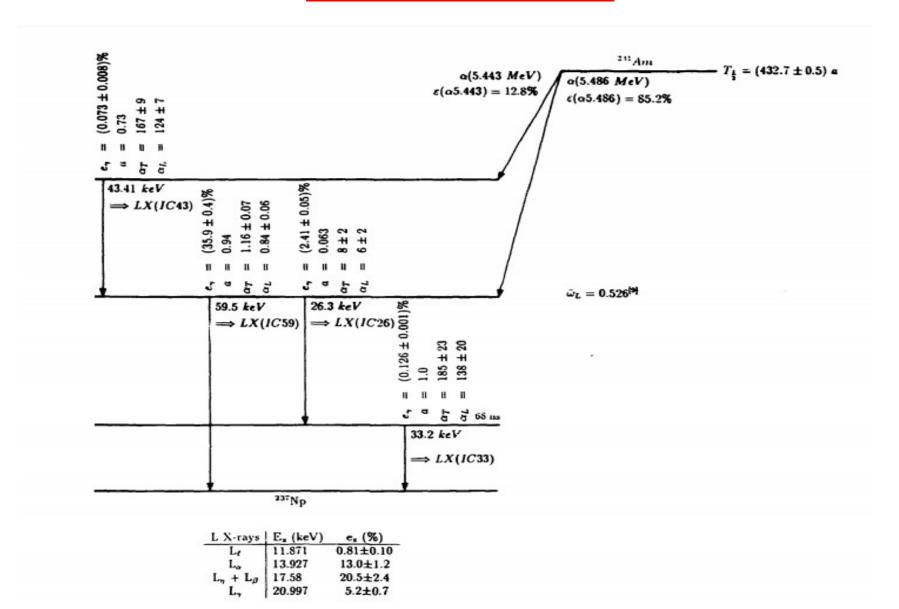
Y. B. Wang et al. Phys. Rev. C 103, L011301, 2021

α (4.12 MeV) particle from 20Ne after β decay from 20Na



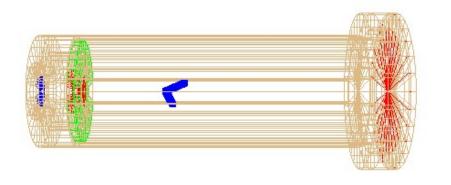


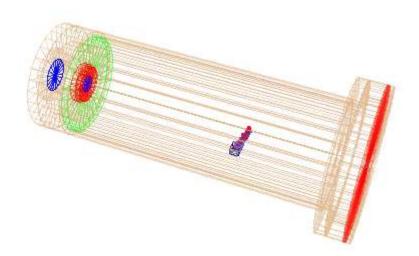
Simplified ²⁴¹Am decay scheme

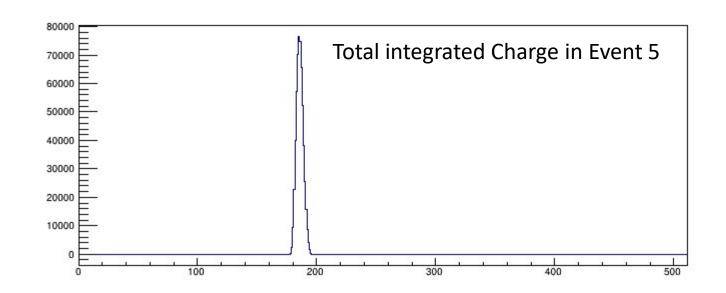


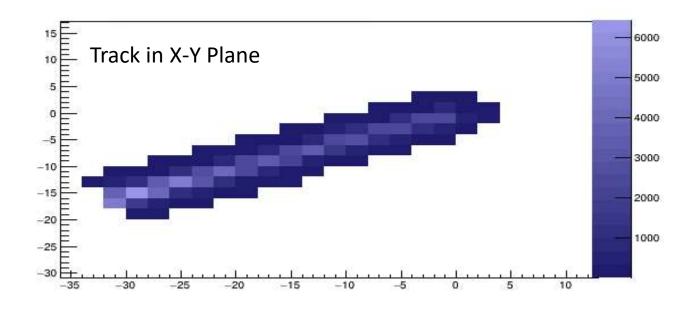
α (5.485 MeV) +X-ray (11.871 keV) event

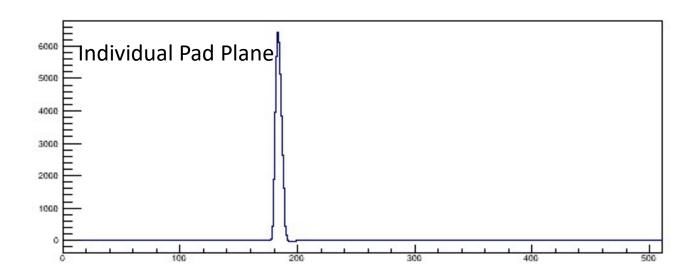
Simulated Event





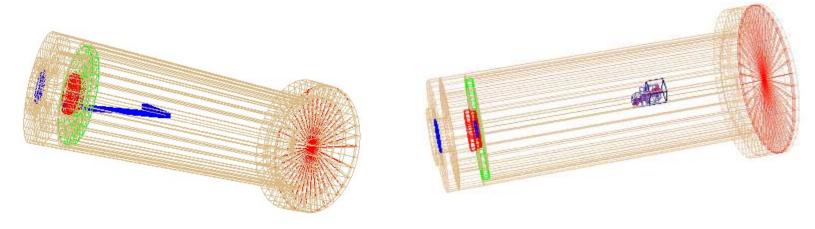


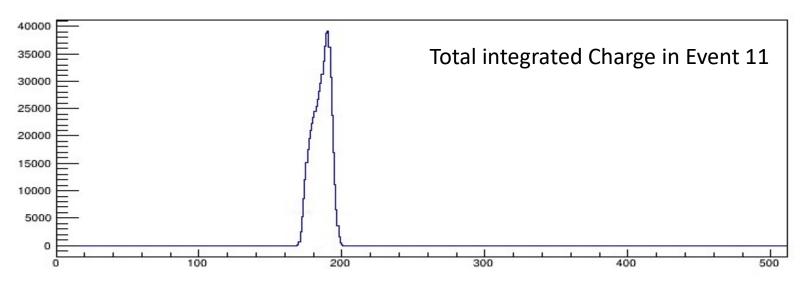


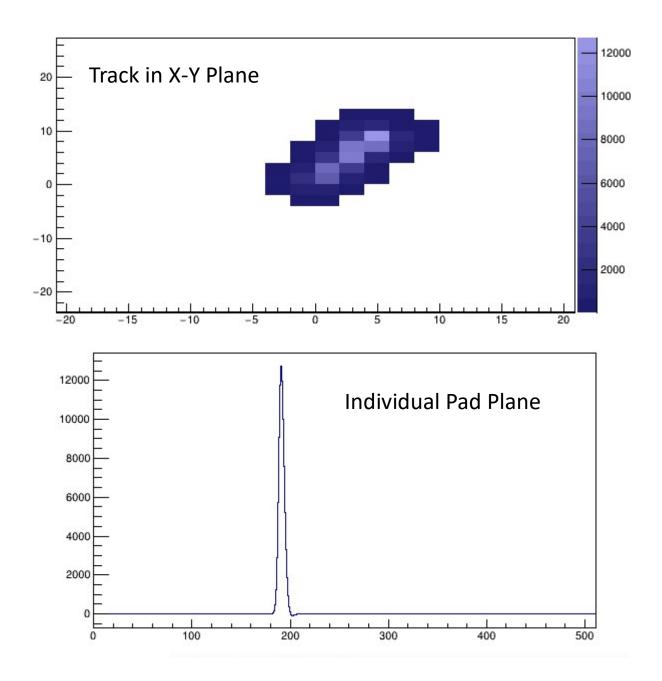


α (5.485 MeV) +X-ray (17.58 keV) event

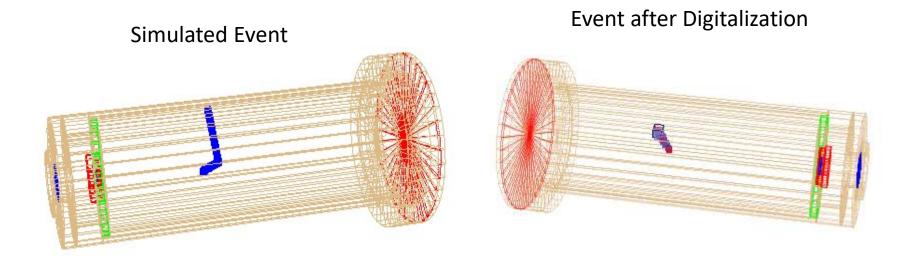


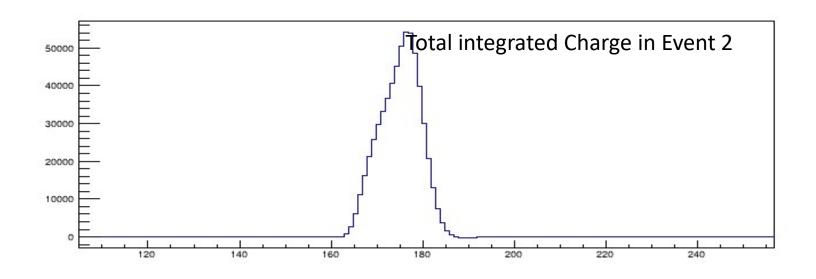


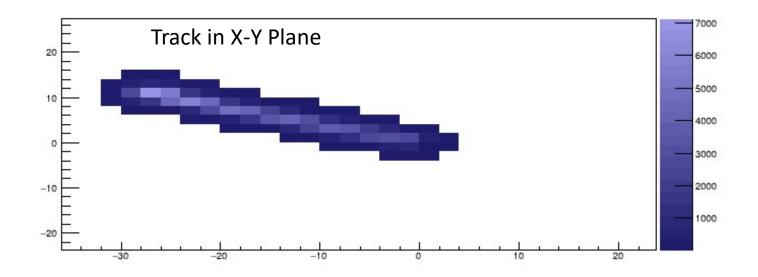


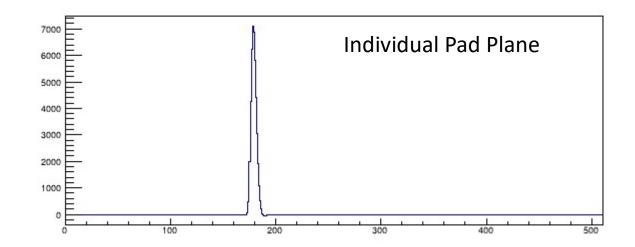


α (5.485 MeV) +X-ray (20 keV) event



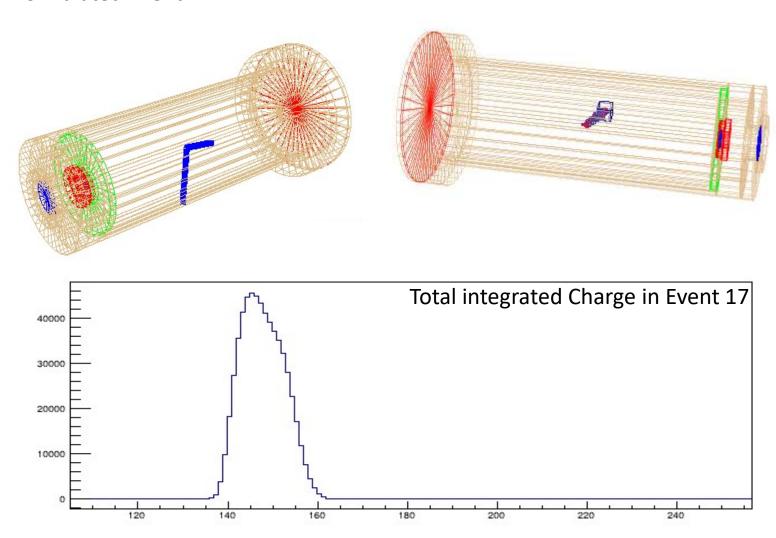


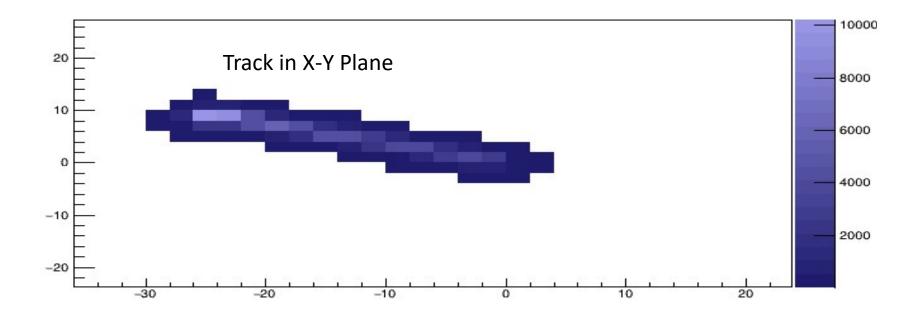


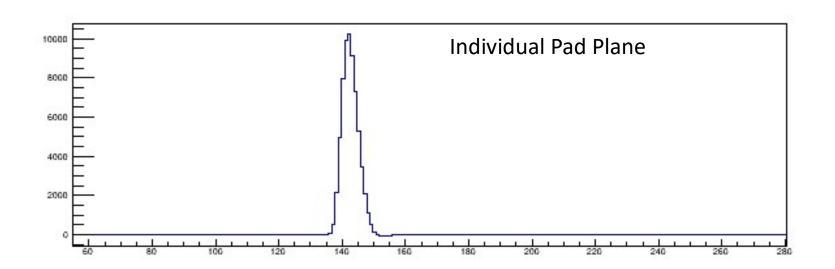


α (5.485 MeV) + γ -ray (59.5 keV) event

Simulated Event



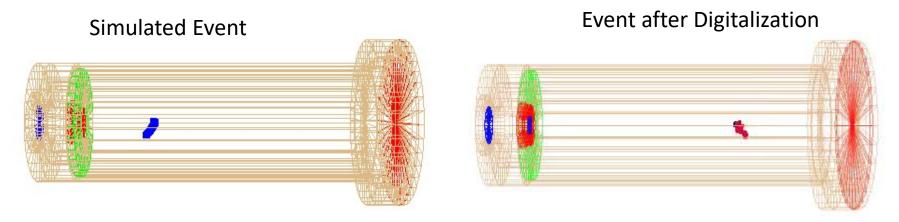


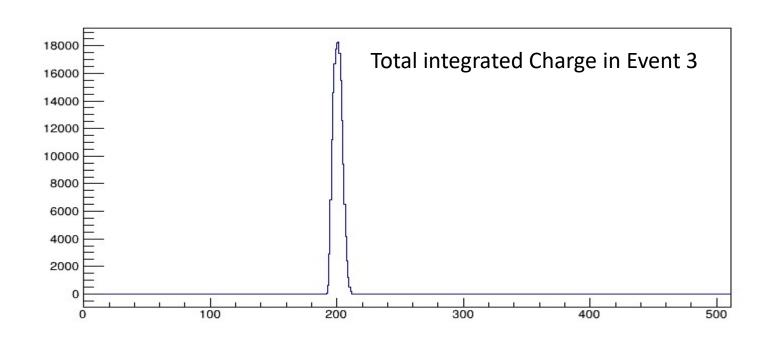


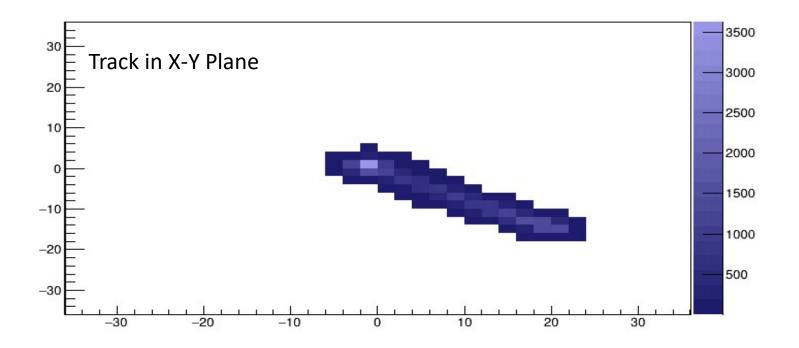
Full Decay of 20Mg

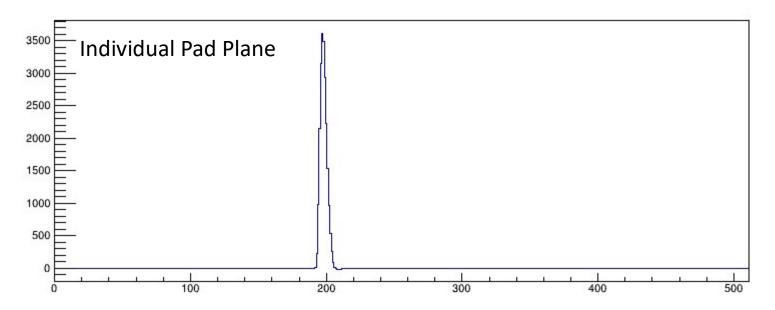
- 1) Added Simplified decay scheme for 241Am. (For testing purpose)
- 2) Added protons from 20Na decaying to 19Ne.(30)
- 3) Added betas from ground state of 20Na to 20Ne (17 different levels are populated)
- 4) Added gammas from 19Ne excited states to ground state (25 different gammas)
- 5) Alpha particle emitted from the 4.03 MeV state to 15O.(1)
- 6) Gamma rays from excited state of 20Ne to ground state.
- 7) Alpha particles from 20Ne to 16O. (15)
- 8) 19Ne decaying to 19F by betas
- 9) Gamma rays from excited 19F

p (1.2 MeV) + α (0.506 MeV) event

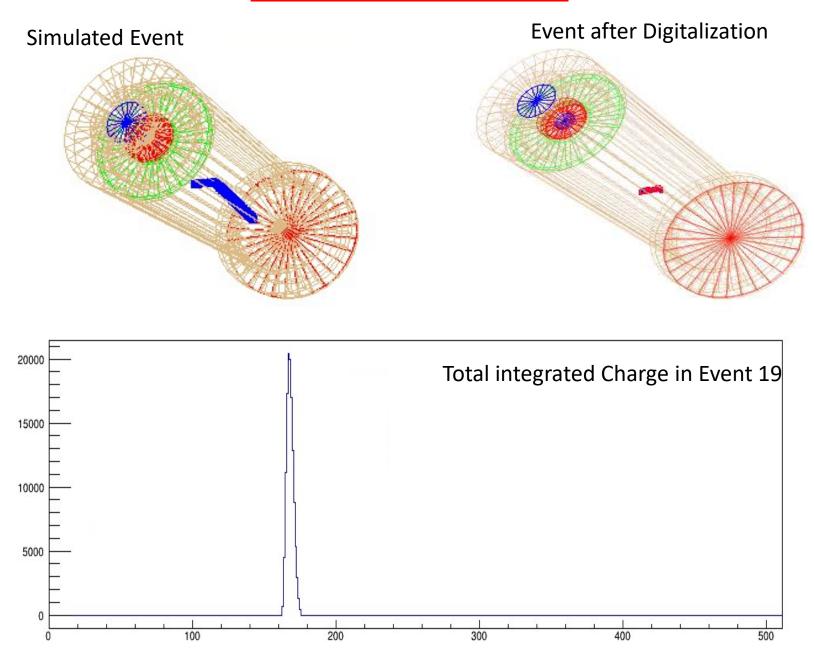


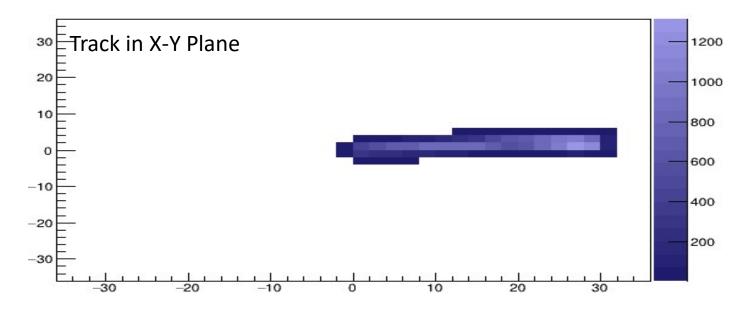


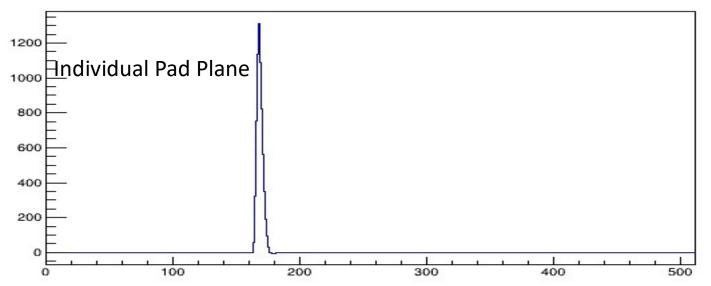




p (1.2 MeV) +γ (4.03 MeV) event







α (5.443 MeV) + γ -ray (43.4 keV) event

Simulated Event

