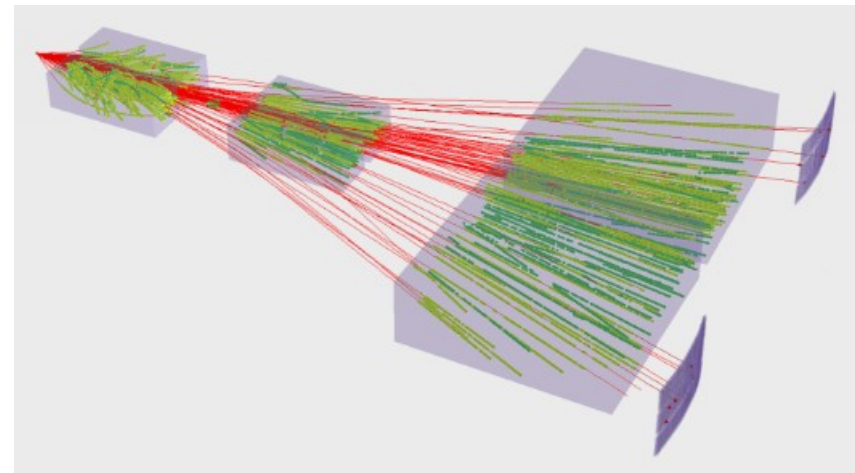


NA61/SHINE

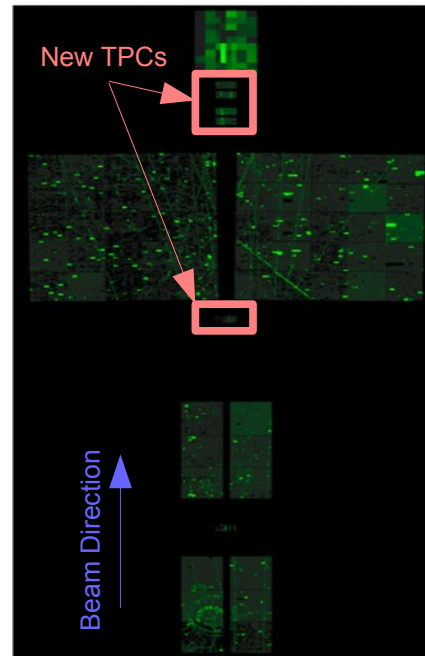
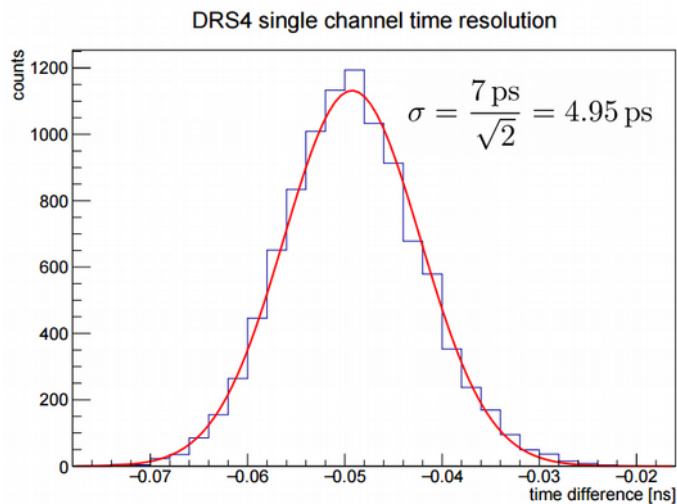
Data taking for Fermilab neutrino beam lines in
NA61/SHINE
August 2nd - September 6th 2017



USNA61 Data Taking Period

- Six reactions recorded over five-week period
- New detectors integrated
 - Forward TPCs cover previously non-sensitive forward region of detector
 - Forward TOF readout with new DRS4: Intrinsic single-channel resolution of 5 picoseconds
- Achieved full phase space coverage expected for neutrino runs
- Thank you for providing us with the beams and support to make this physics program possible!

Reaction	Number of events
π^+ + Al 60 GeV/c	2.52×10^6
π^+ + C 30 GeV/c	2.19×10^6
π^- + C 60 GeV/c	3.57×10^6
p + C 120 GeV/c	2.57×10^6
p + Be 120 GeV/c	3.97×10^6
p + C 90 GeV/c	3.12×10^6



p + C 90 GeV/c Event (raw data)



New time projection chambers

NA61 data statistics 2017

