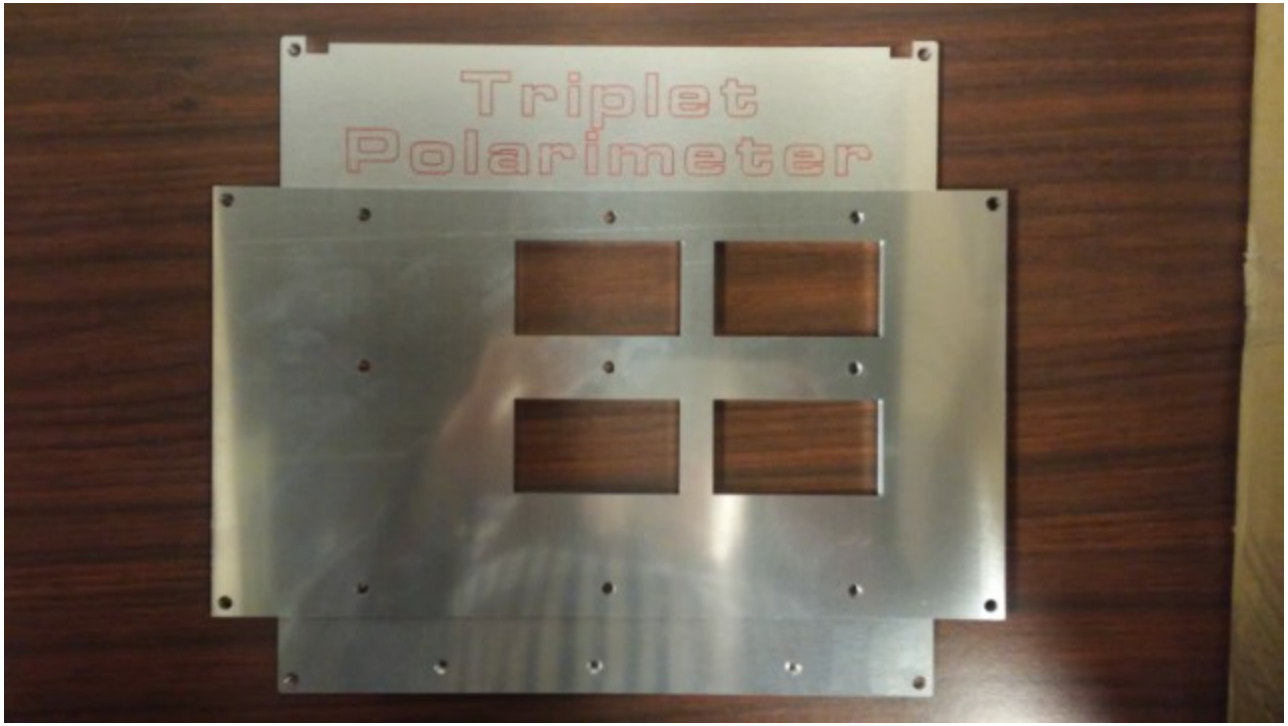
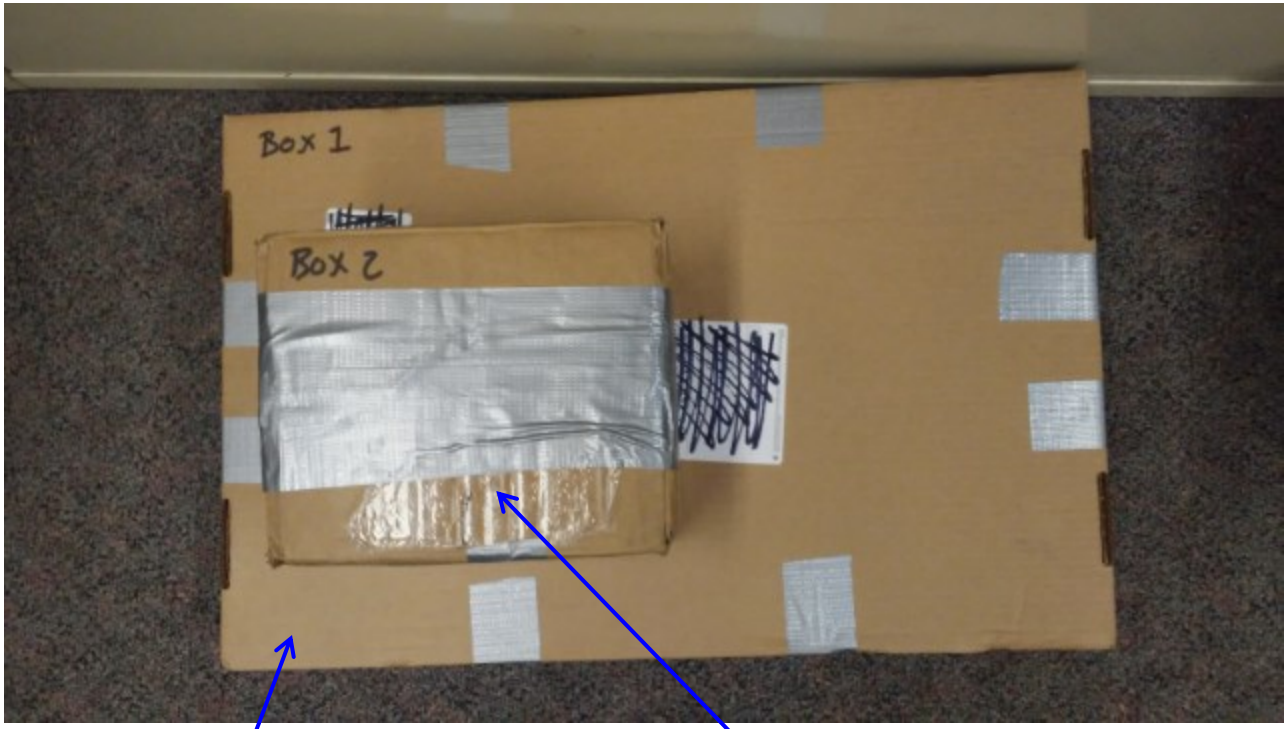
TPOL update

Received the new preamp-enclosure front panel and distribution-box back panel



- The holes align and everything looks OK
- Boxed and to shipped to JLab

Boxes shipped by FedEx ground



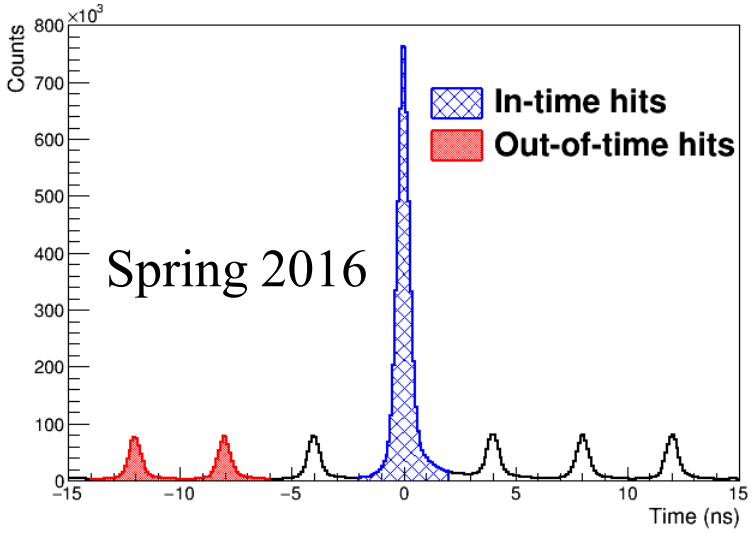
Panels (Box 1)
Arrived at JLab: 6/1/17

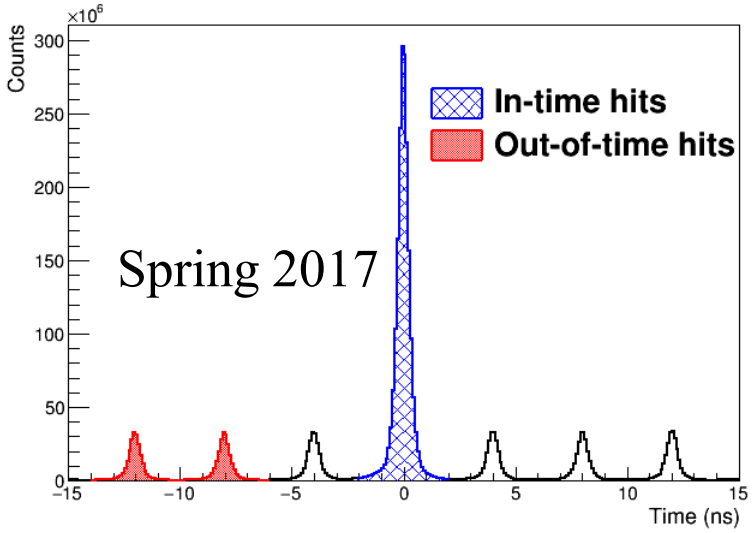
Preamps (Box 2)
Arrived at JLab: 5/31/17

Quality check Spring 2017 TPOL data

- Nathan created Spring 2017 TPOL trees ☺
- Have 346 runs

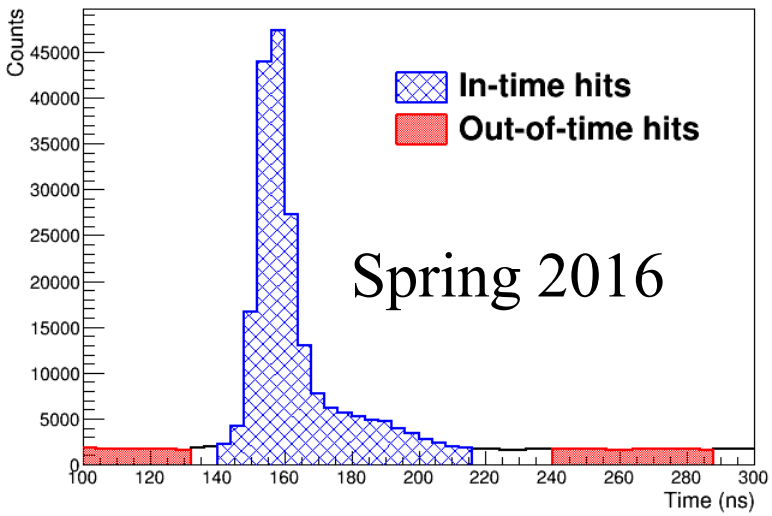
Tagger-PS timing

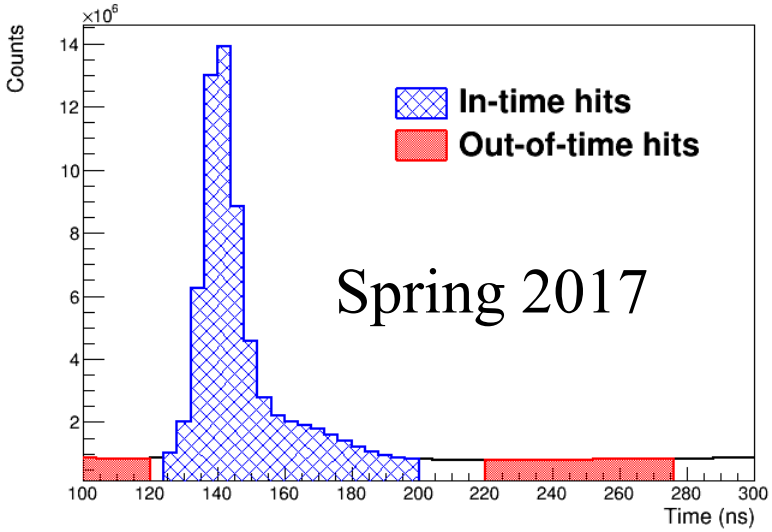




- Spring 2017 looks a bit better than Spring 2016
- Will add more beam buckets to out-of-time hits later on

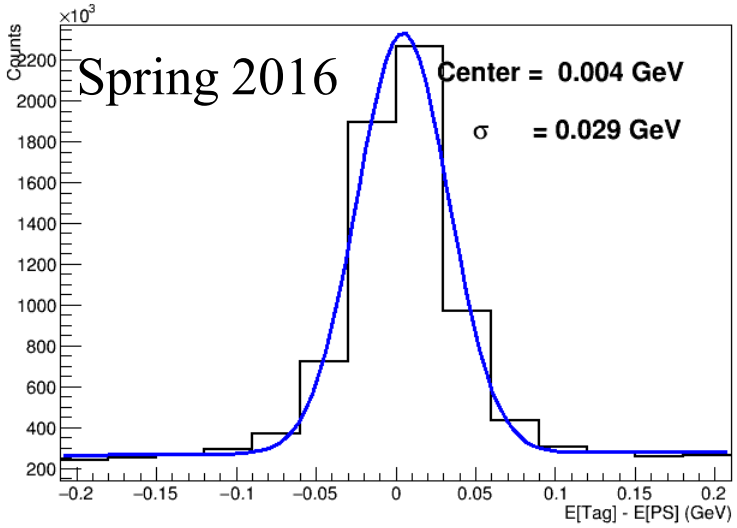
TPOL-PS timing

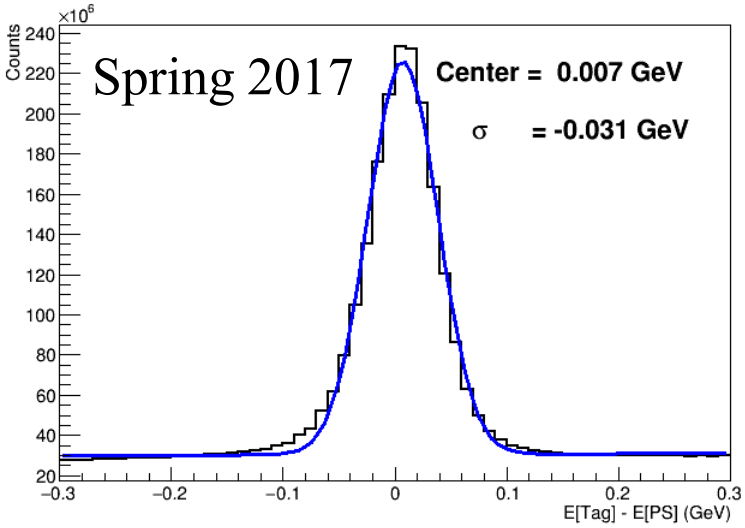




- The timing of TPOL has changed (due to new DAQ settings)
- New definitions of in-time and out-of-time hits shown on histogram

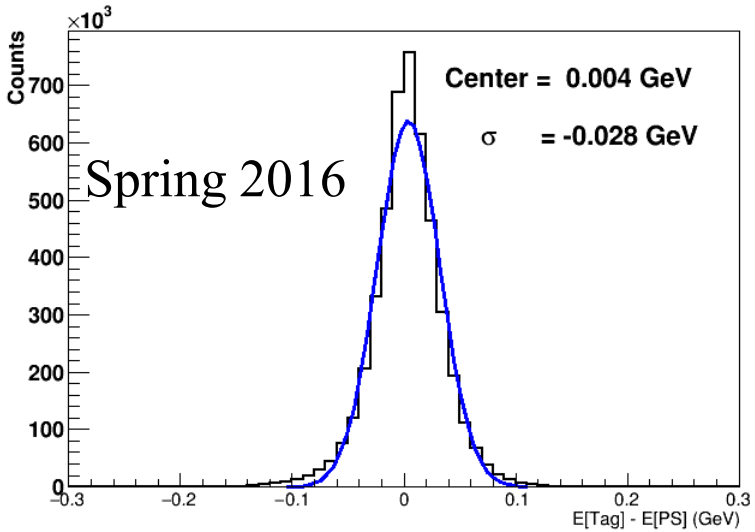
E[tag] – E[PS]

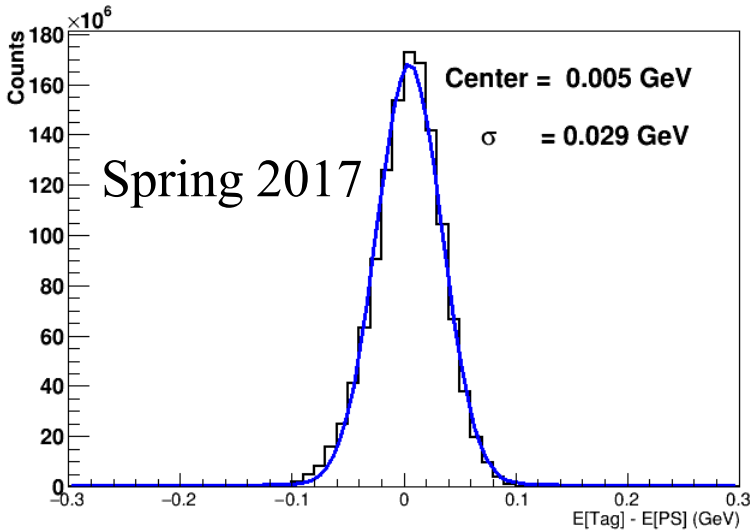




- Different bin widths but otherwise Sp16 is nearly the same as Sp17

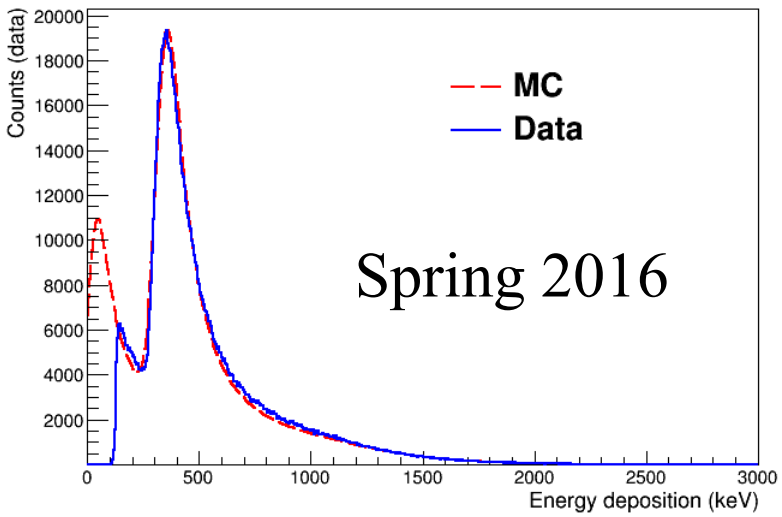
E[tag] – E[PS] for best timed photon

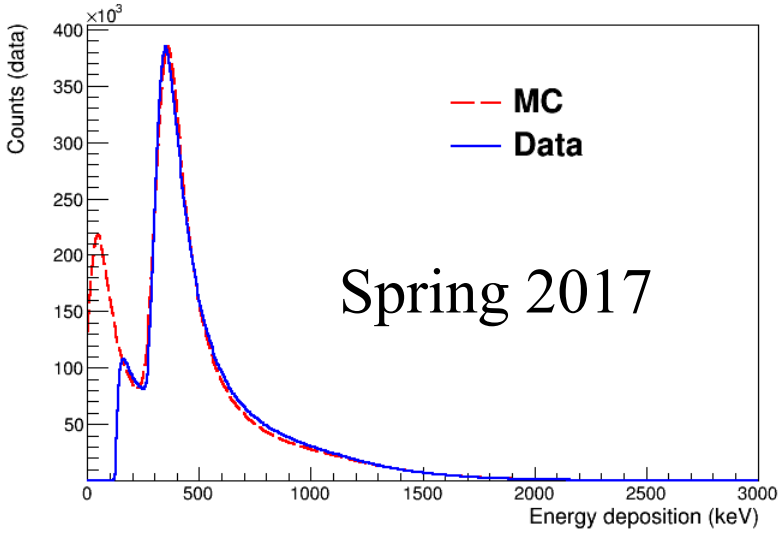




- Nearly the same center and width

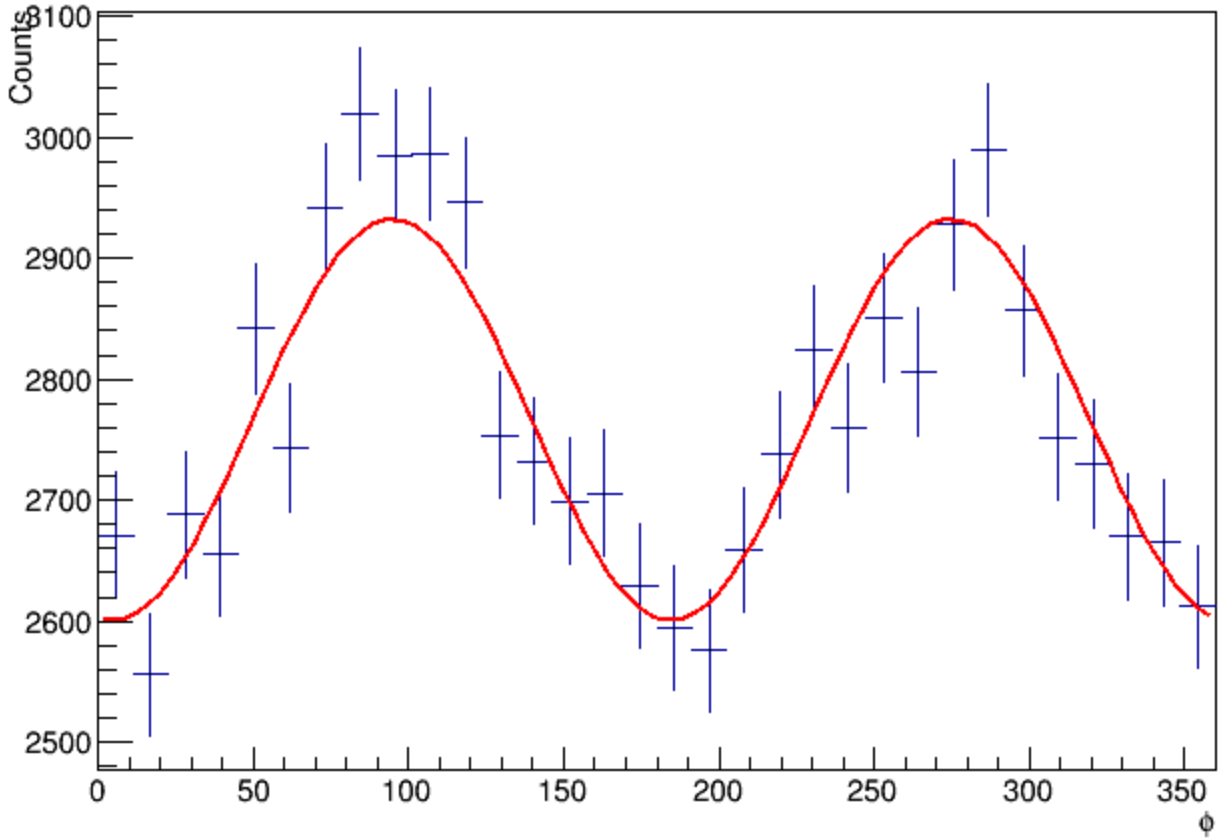
Energy deposition comparison





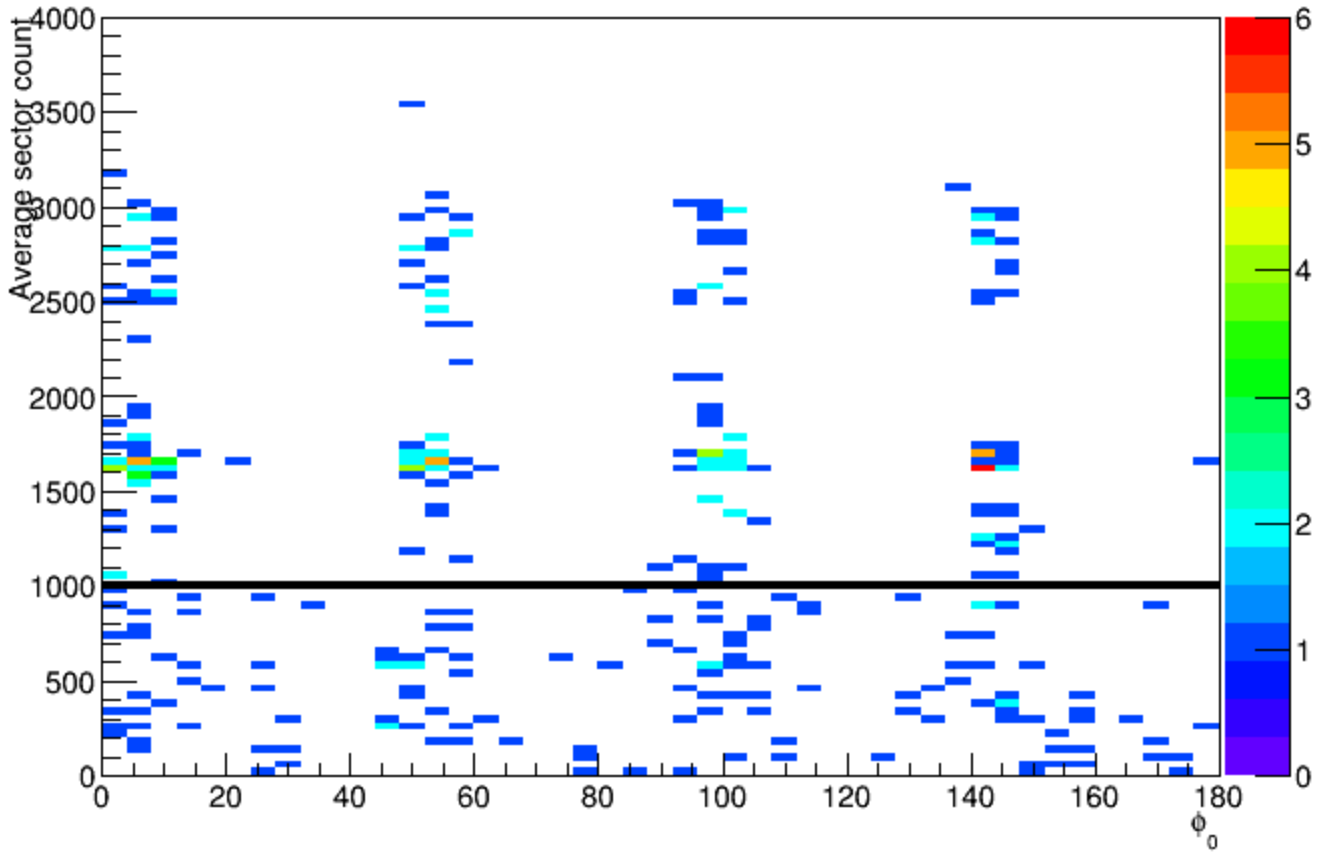
- Data has accidental subtraction
- Comparison looks good
- Will use Sp16 smears and energy cuts for Sp17 data

Example fit for run 31031



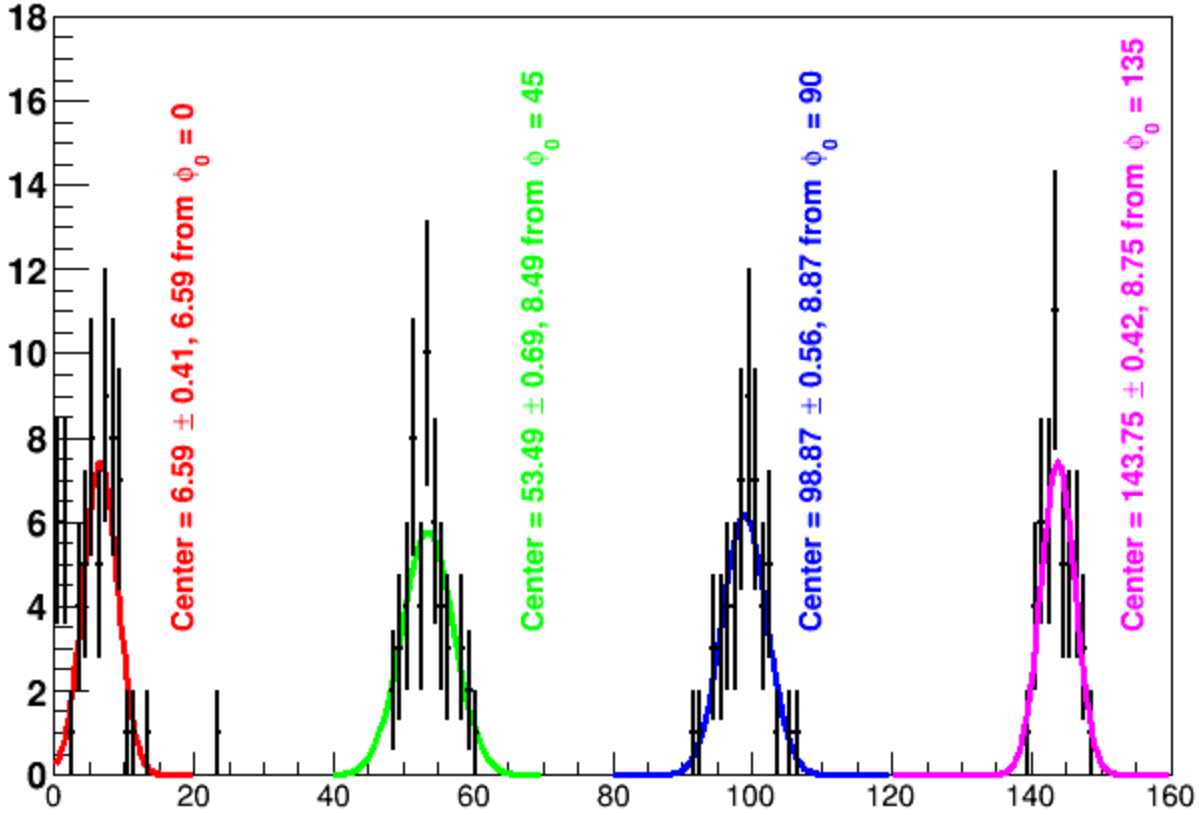
- Used *E*[PS] from 8.2 to 8.8 GeV
- Ran fits for each run

Average sector count vs. offset



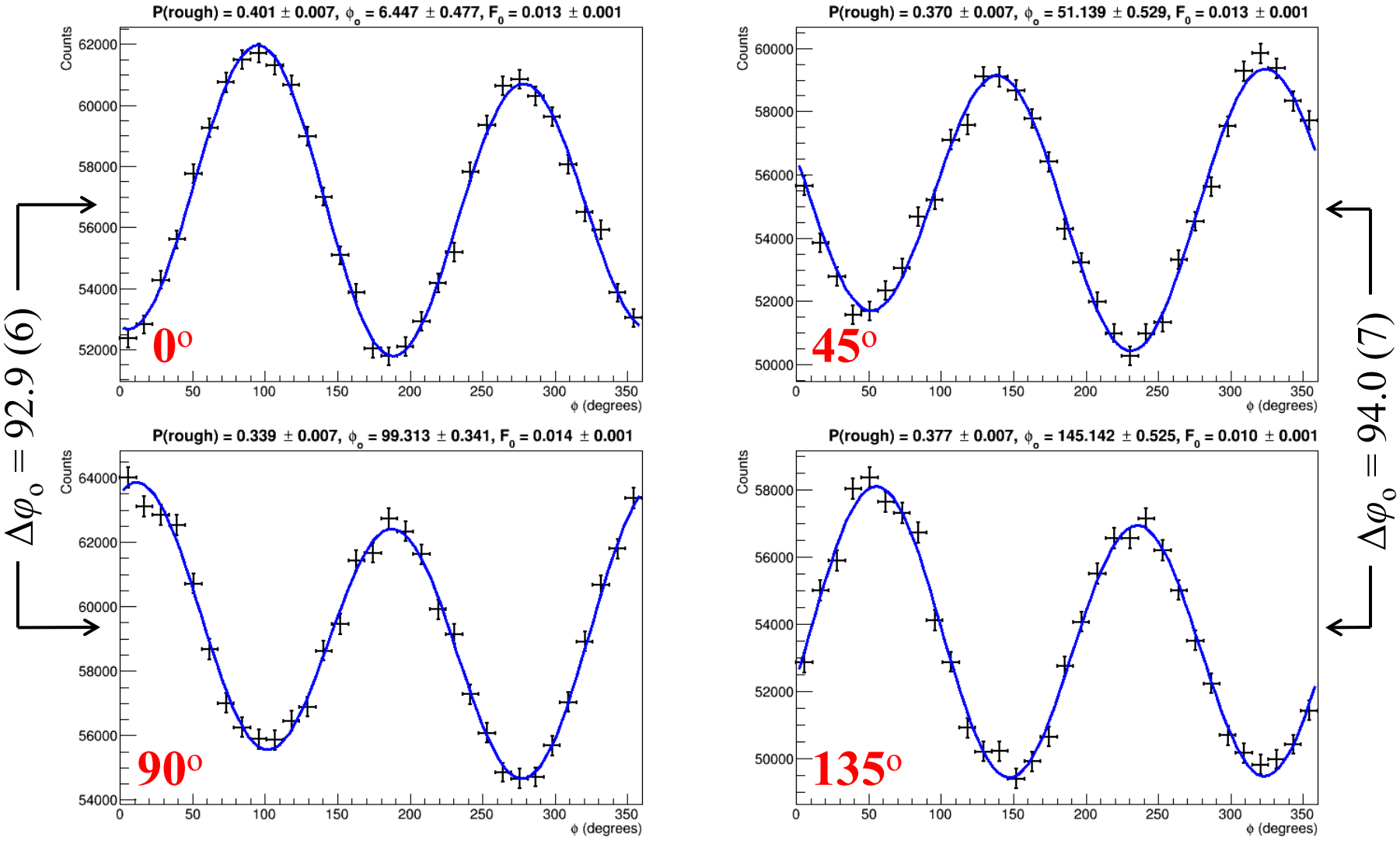
- Take everything above the line at 1000 average sector count

Offset



- For runs with average sector count > 1000

Some polarization values



- Used +/- 3 σ from φ-centers shown on previous slide to determine nominal orientation
- Used runs regardless of sector count, but *P*(rough) had to be greater than 0.15
- Included TAG coincidence (energies determined by TAG) and *E* between 8.2 and 8.8 GeV

Title