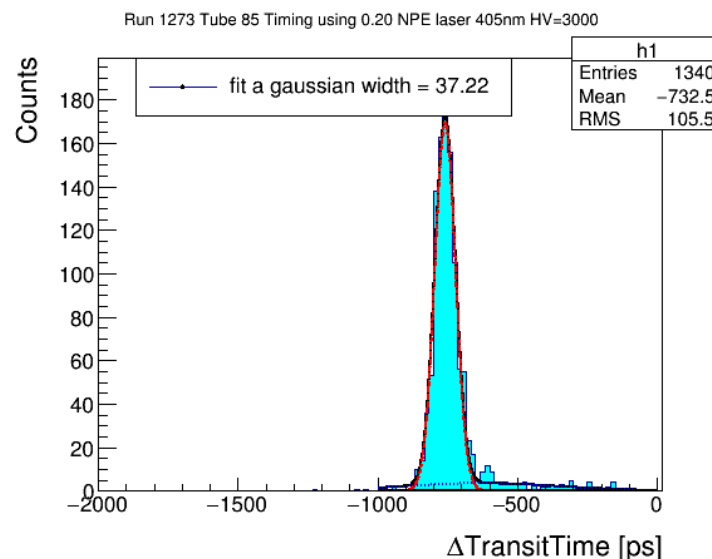
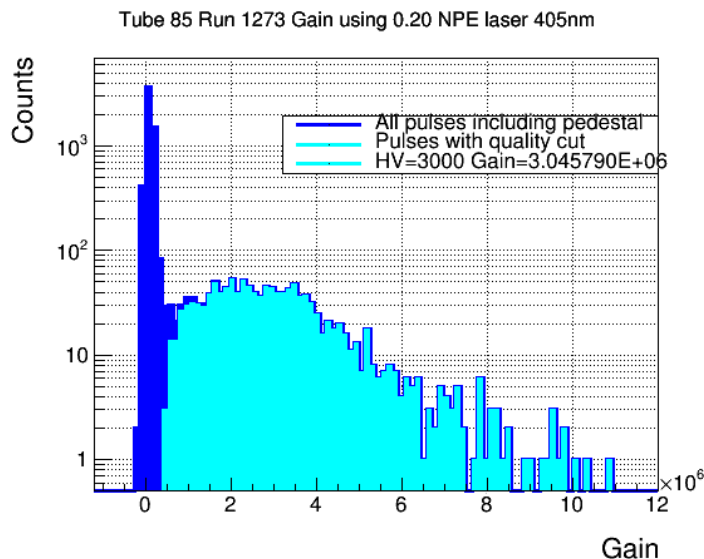


# First Argonne 6cm MCP-PMT with pair of INCOM 10 $\mu\text{m}$ MCP

*Only smaller pore size, no space reducing yet*

Greatly improved rise time and timing resolution as pore size reduced

Performance	20 $\mu\text{m}$ pore (tube #79)	10 $\mu\text{m}$ pore (tube #85)
Rise time	557 ps	457 ps
Gain	$6.1 \times 10^6$	$3.0 \times 10^6$
Timing resolution (SPE)	57 ps	37 ps ( with laser start time jitter: $\sigma_{\text{laser}} \sim 30\text{ps}$ )



Next B field test for this 10  $\mu\text{m}$  tube will be around Sep 10 ~ 15. The next B field test for non-magnet 20 cm LAPPD has not been scheduled, pending on LAPPD availability.

