

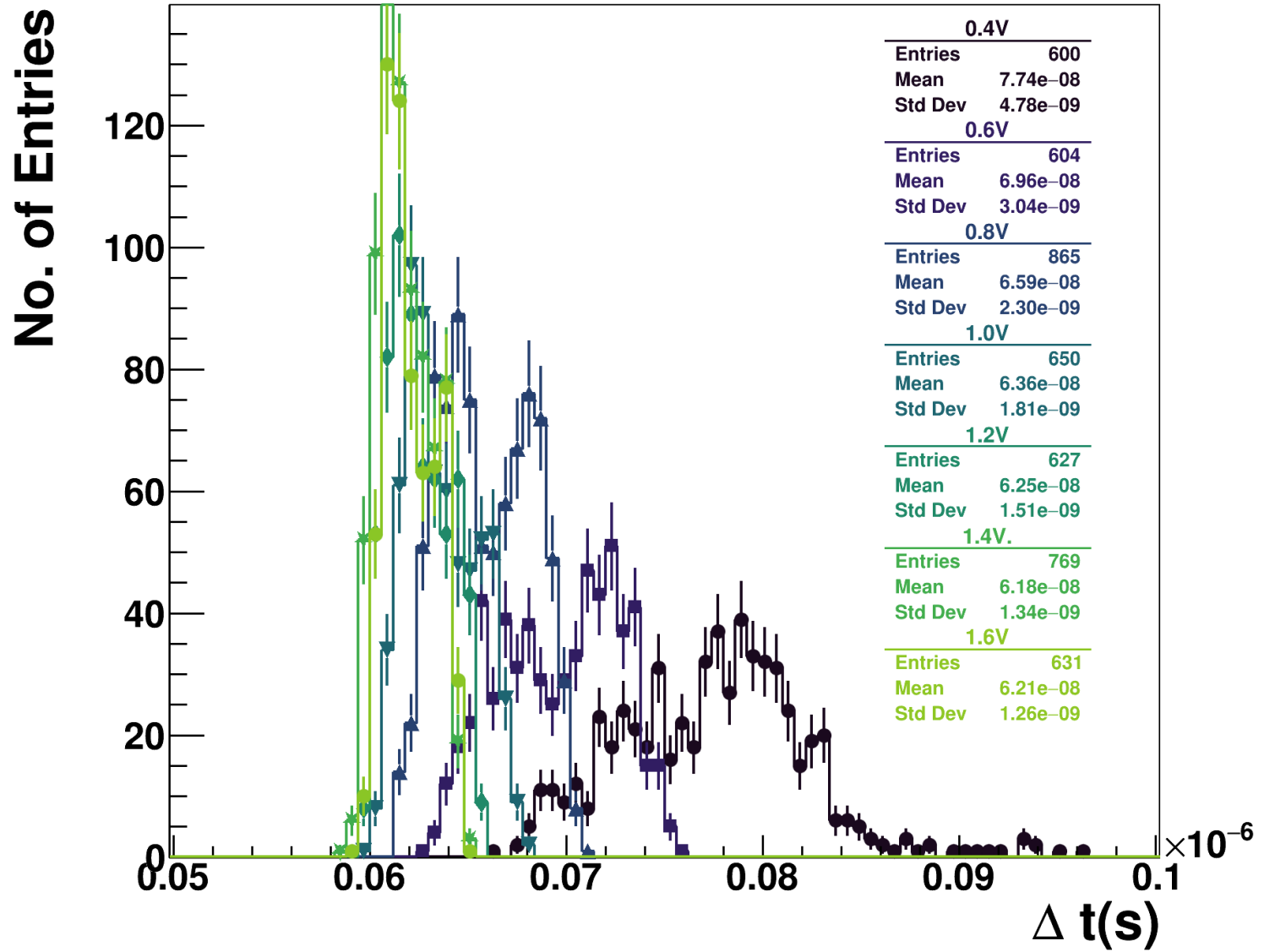
Checking pulse

- Last week: showed fairly poor time resolution with MPW3
- As per suggestions measured the pulse generator signal on the board to ensure no reflections are present.
- Overall no major reflections visible.



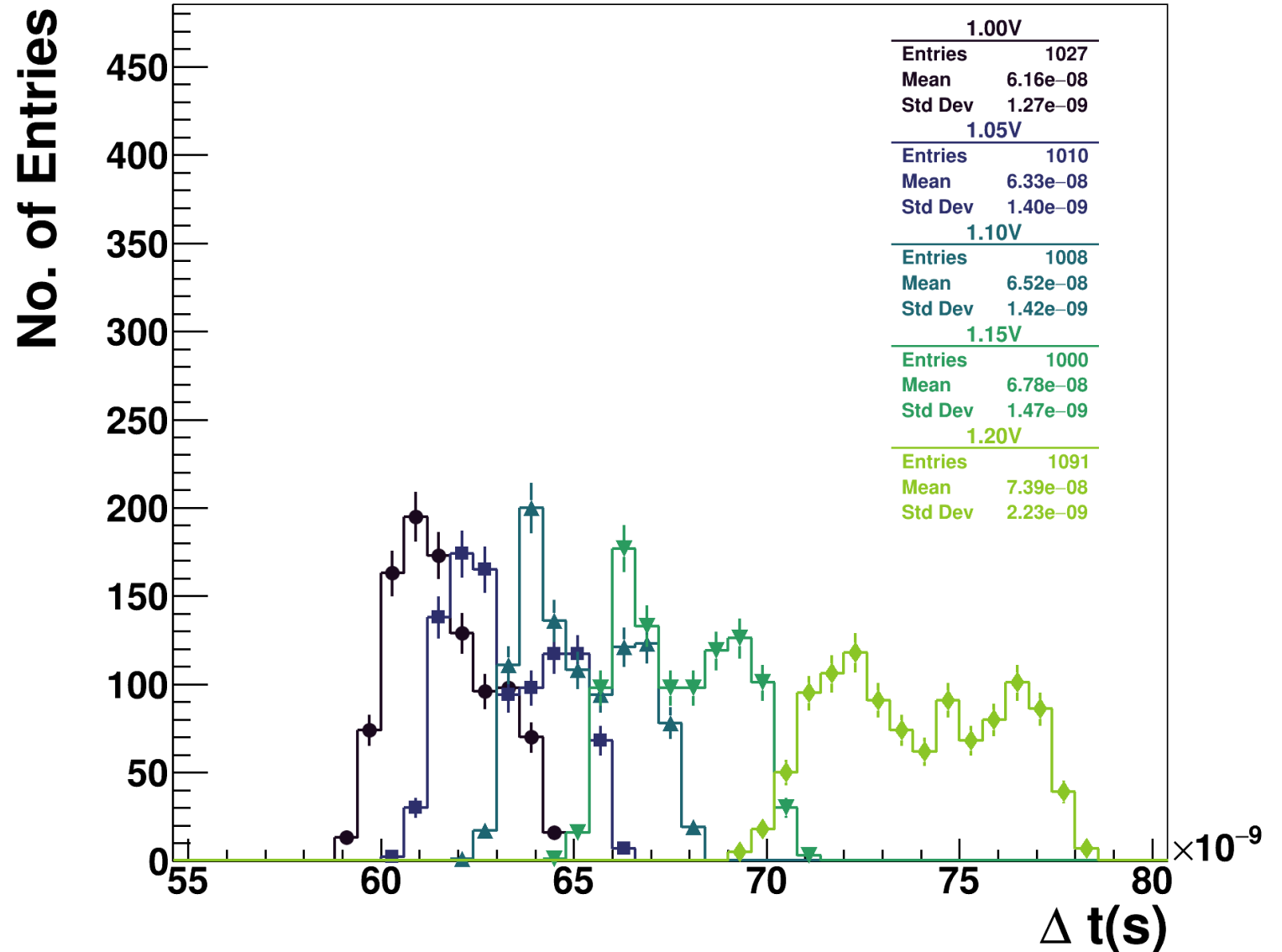
Time resolution: Injection

- Checked further the relation between injection charge, threshold and time resolution
- Pixel r60c2 was operated at 1V threshold



Time resolution: Threshold

- Checked further the relation between injection charge, threshold and time resolution
- Pixel r60c2 was operated at 1.5V injection
- Previous assumption of threshold was incorrect?
- See no pulses beyond 1.23V threshold



A few questions and ideas

- Injection voltage of 1.5V $\approx 2.8\text{fF} * 1.5\text{V} = 26250 \text{ e-}$
- I see no signal beyond 1.23V threshold.
- Was the effect of the threshold always this strong?

- Investigating if there is a pattern over row/column with the time resolution
- Maybe threshold or injection is not very stable?