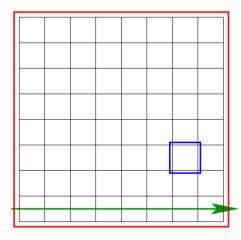
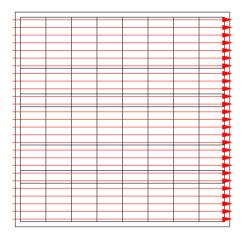
### SCANNING SETUP

Jerry and I restarted the PMT scanning setup in building 403

Light source:

Pilas pico-second laser in single photon mode;  $\lambda$ =430nm; pulse jitter FWHM < 35ps/60ps





## Motion-controlled x/y stage:

typical scan step size 100μm repeatability < 7μm

## Readout:

single-threshold LeCroy discriminator TDC: LeCroy 3377 (500ps per count) (One dead channel in one TDC)

## Protocol:

scan lines in x before and after each line calibrate by going to DIRC or Photonis PMT

# Analysis:

huge data volume (20k trigger per point, typically 12-15k points) save as compact file, convert to ROOT

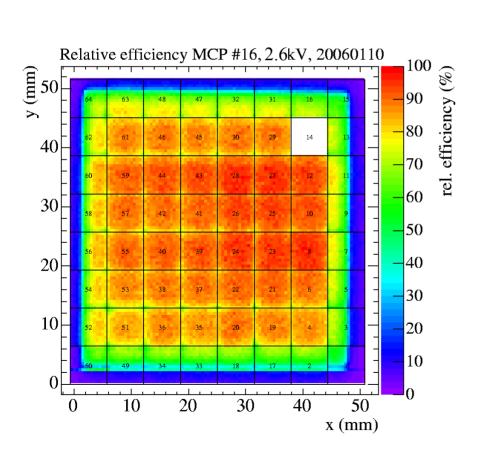
### SCANNING SETUP

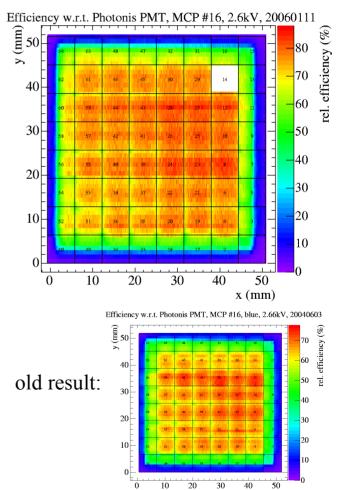
consistent result

Scanned MCP #16 (has been in setup for more than one year) Two scans, one with 0.2mm\*1.0mm steps, one with 0.5mm\*0.5mm steps 0.5ns/count TDC used only to reject background (no timing scan)

 $\rightarrow$  obtain results consistent with 2004 scans.

(MCP at slightly lower HV than last year, Photonis calibration PMT at lower HV)





x (mm)