

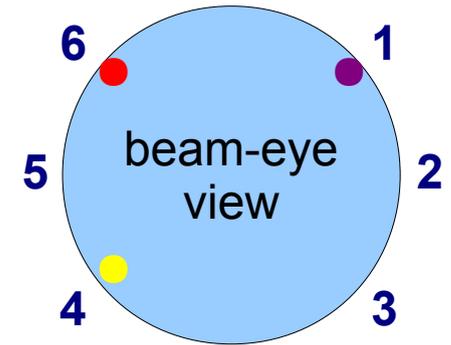
Run12 planning

polar. mtg.
09.11.11

- Detector placement almost set except:
 - BNL long or short pin in Y2D 90° detectors? *Grigor...*
 - 1mm BNL rotated detectors @ 45°: antipodal or L/R symmetric?
- Targets: input from discussion last week, proposal
extra slide: very wide targets
- Source placement: Gd (*GAD-o-LIN-ee- θ m*)
- Job list

2 rotated BNL 1mm @ 45°

- Do we want **left/right symmetric**, e.g. ports 1&6?
- Or **antipodal**, e.g. 1&4?
- Asymmetry $(L-R)/(L+R)$ as function of polar. vector direction, $0^\circ = \text{vertical}$:
- If for study we want to measure asymmetry using only these 2 detectors, the left/right symmetric configuration is insensitive to deviations of polar. vector from vertical

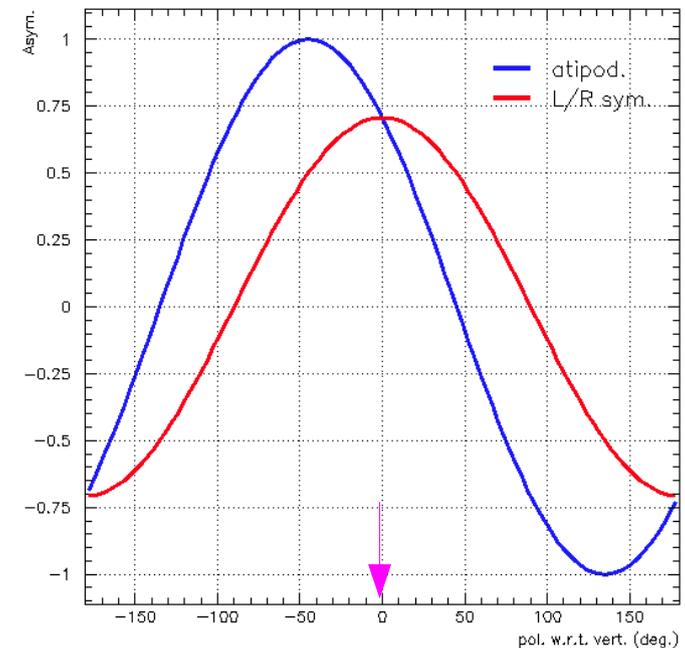


- If for study we want to measure asymmetry using only these 2 detectors, the left/right symmetric configuration is insensitive to deviations of polar. vector from vertical

Note: this is not a strong argument. We have to decide something...

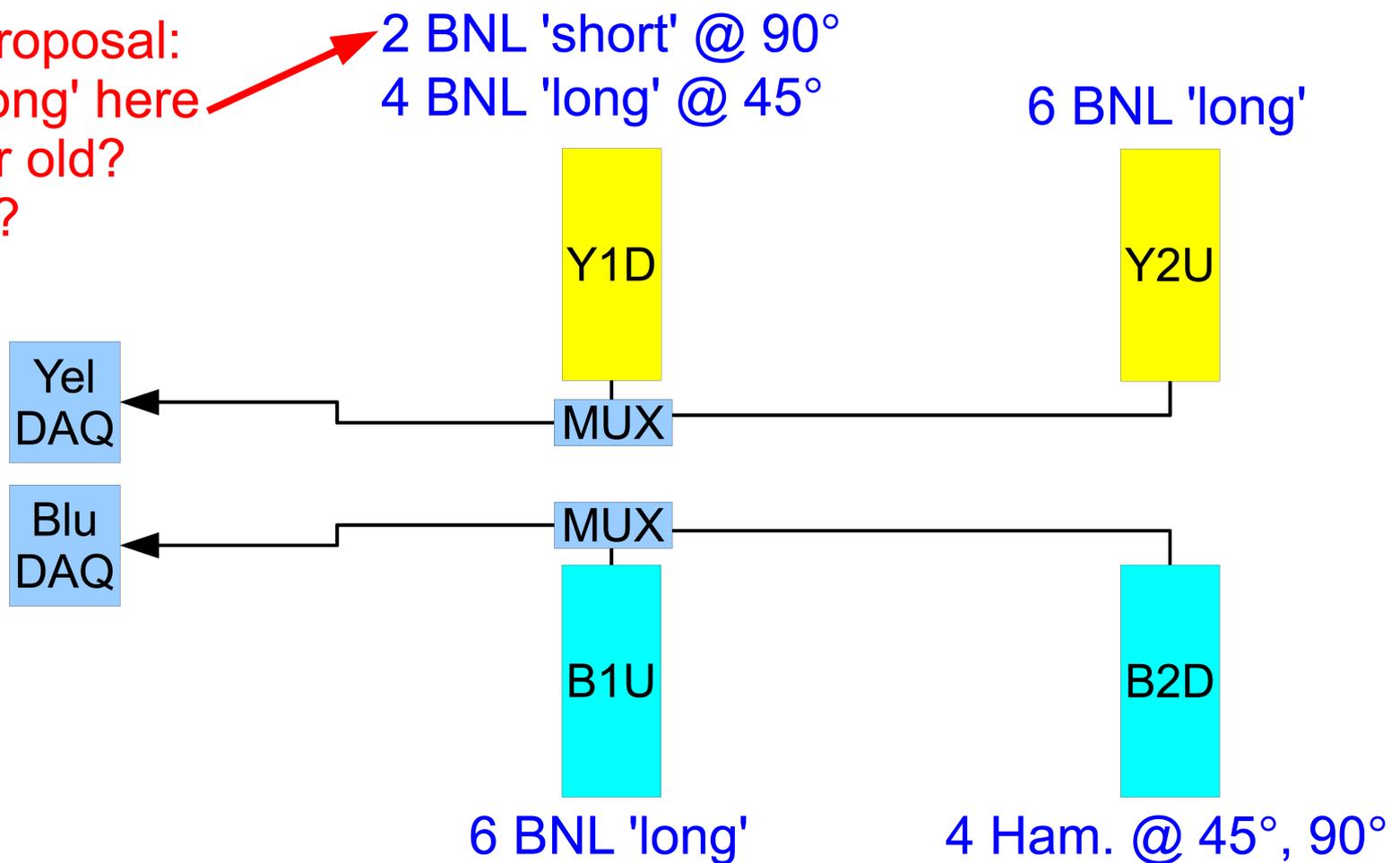
Proposal:

- Place L/R symmetric
- Ports 1&6: easier access to awkwardly arranged preamp boxes



~Decided: DAQ & detectors

New proposal:
BNL 'long' here
New or old?
Grigor?



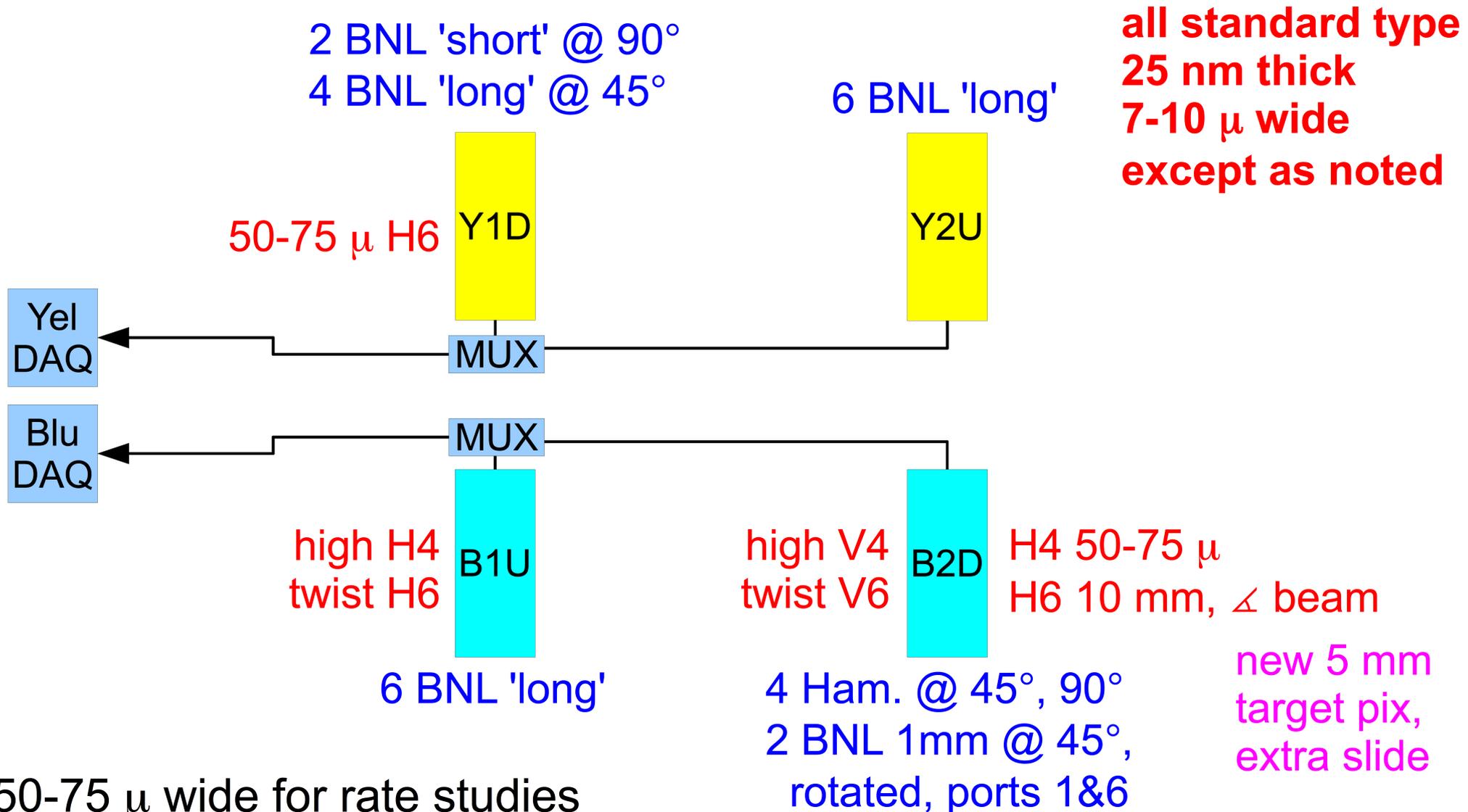
Only changes from Run11:

- Swap: 1 pair Ham. Y1D → B2D @ 45°
 \Leftrightarrow 1 pair BNL 'short' B2D → Y1D @ 90°
- New pair 1mm BNL → B2D @ 45°; install rotated ports 1&6
- Discard one pair BNL 'short' (1 hi I_{bias}) from B2D

Target placement discussion

- Last meeting (26.10.11) proposals for target placement made & discussed
- Following changes suggested:
 - Only install 2 targets for rate studies, 50-75 μ wide
Do not install 2 targets 20-30 μ wide
 - Pair 'high twist' targets in B2D-V with similar in B1U-H
B2D use vertical targets, 90° det. used, smaller det./lower rates
Run simultaneously to compare B1U/B2D polarizations, stability?

Proposal: targets



**all standard type
25 nm thick
7-10 μ wide
except as noted**

- 50-75 μ wide for rate studies
- 10 mm wide can maintain 45° polar orientation, well defined E-loss
- High twist in B1U-H, B2D-V should be used simultaneously,
monitor $P_{B1U} \sim P_{B2D}$

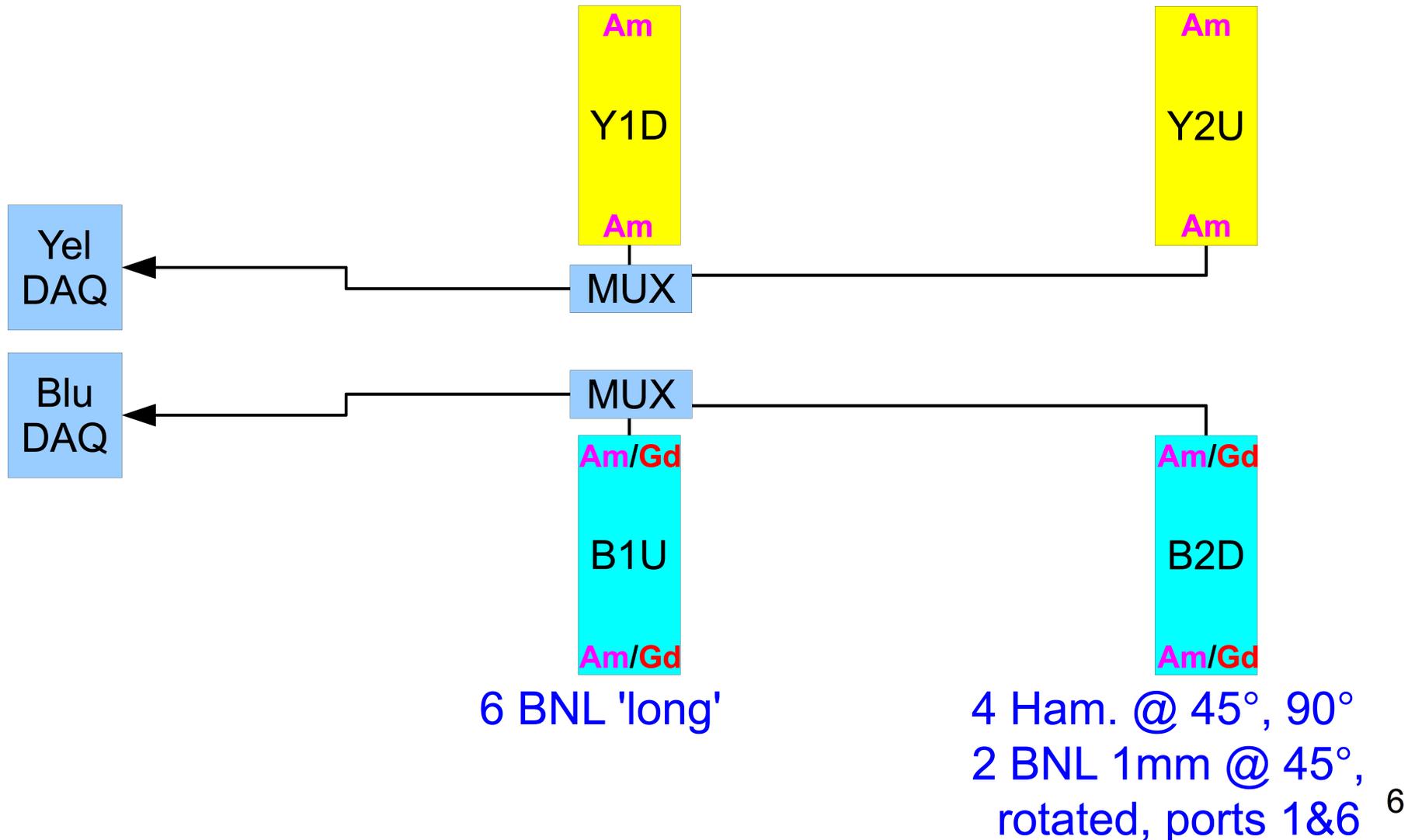
Source placement

- Sources: **Am** – 8 in place; **Gd** – 4 ordered; where to place?
- Proposal: Gd all in Blue polar.; data both BNL & Hamamatsu det.

2 BNL 'short' @ 90°

4 BNL 'long' @ 45°

6 BNL 'long'



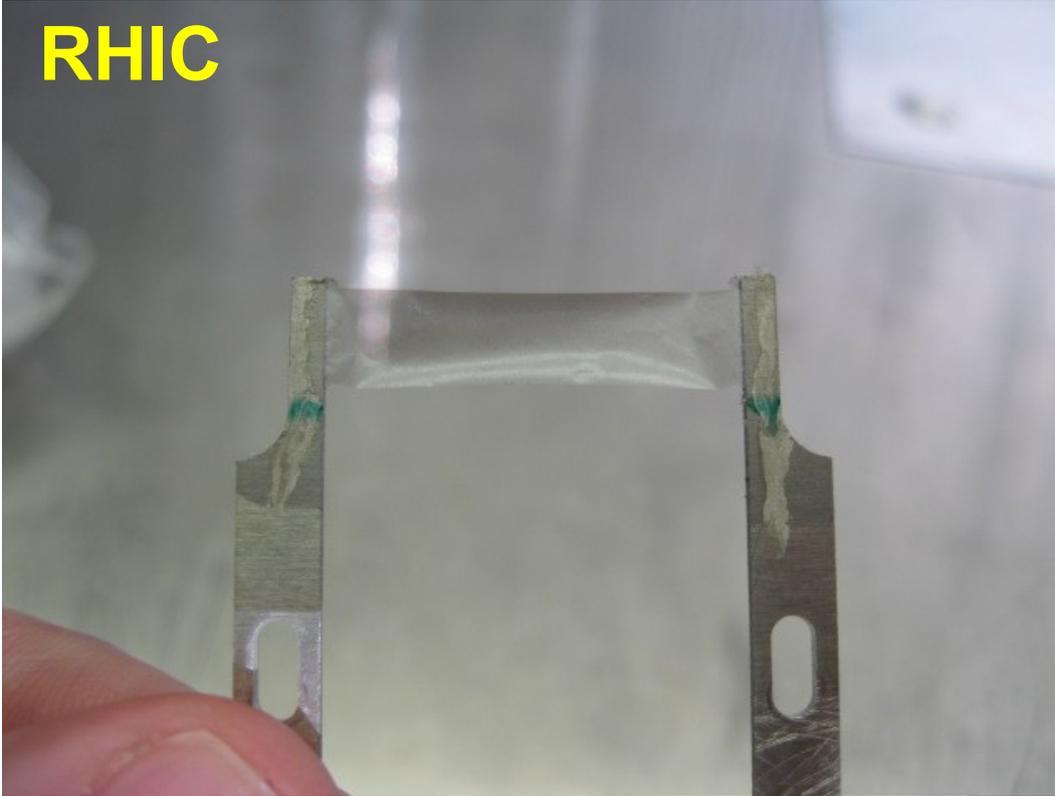
Job list

1. Install Si detectors and electronics boxes for blue2.
2. Install 2 pairs Si detectors (as Hamamatsu ones will be swapped out) and electronics boxes for yellow1.
3. Install target drive for yellow1 (broken during the stress test in July?).
4. Install all targets.
5. Installation of Gd sources. Extension brackets for Am in B1U.
6. Some works related to T0 measurement scintillator detectors. Grigor or someone should let me know the scope of the job.
Install SHV connectors both ends of HV cables.
7. Additional target drive upgrade ideas. There seem to be more than one idea and they are conflicting according to Michiko. Anatoli and Grigor (and any interested parties): please present the ideas to the group or at least to the relevant people to consolidate the ideas.

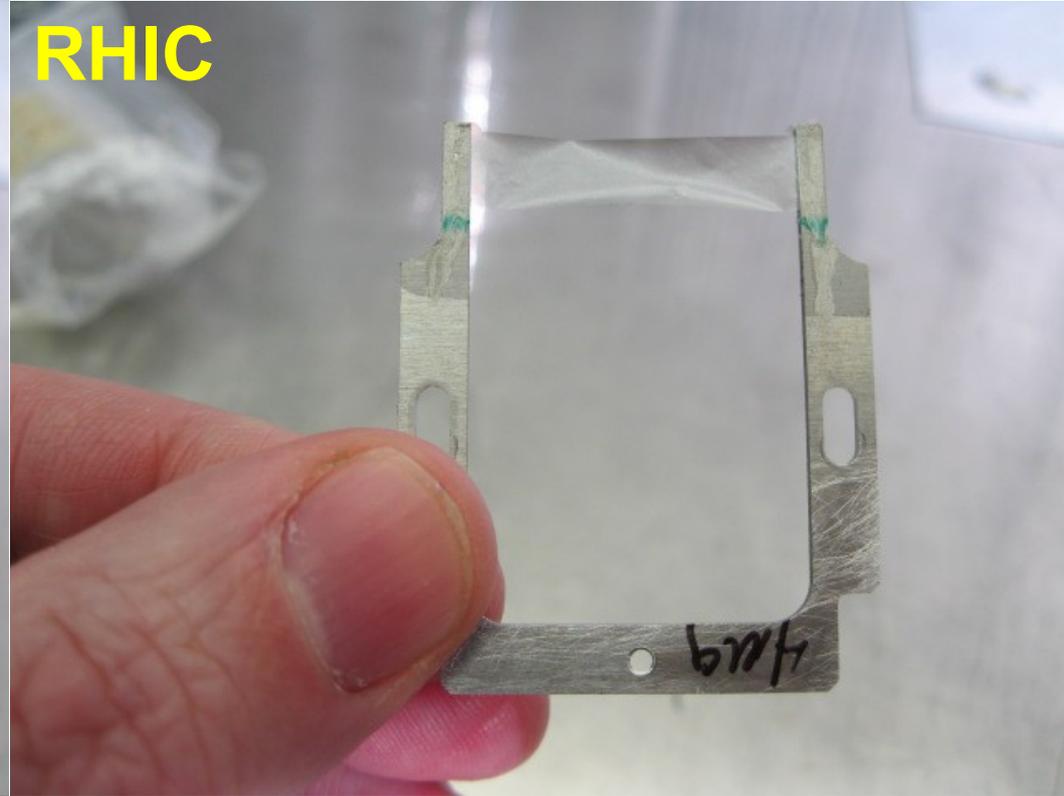
Extras

Wide targets: 5 mm × 25 nm

RHIC



RHIC



AGS

