



고려대학교
KOREA UNIVERSITY

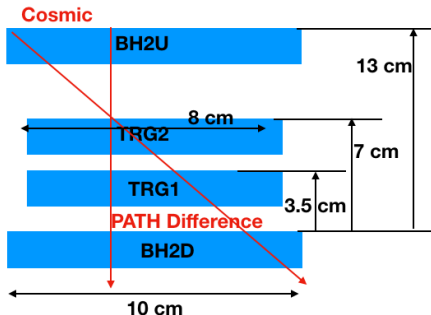
hanul
Hadron & Nuclear Physics Lab



HANUL

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Geometry



	BH2U	TRG2	TRG1
TRG2	33 ps	-	-
TRG1	53 ps	36 ps	-
BH2D	55 ps	59 ps	29 ps

Table: σ of ToFs.

- ToF's were determined using MC method.
- $v_{\mu} = c$ is assumed.
- Width is not considered.
- Trigger rate: $\sim 8,500/\text{day}$

Candidate test schedule

	5 mm	3 mm
9 mm	Check	0907~
13 mm	Taking	0903~0906

ToF after slewing correction.

	Up	Down	Rate
9 mm	72.9 ± 6.8 ps	69.6 ± 6.8 ps	$\sim 300/\text{day}$
13 mm	54.9 ± 3.5 ps	51.5 ± 3.6 ps	$\sim 500/\text{day}$

- Event selection: all-coincidence, w/o position cut.
- $\frac{300 \times 13}{500 \times 9} \simeq 0.87.$

Comparison

	Gain(Typ)	Rate
9 mm	250 adc	~ 300/day
13 mm	400 adc	~ 500/day

BACKUP

13 mm

