Barrel PID; discussion

- Configuration
- To do
- Cost
- Trigger

Detector configuration

- Quartz radiator
 - Size; 40~50cm width x 1~2cm thickness
 - Can we standardize the quartz size?
 - For mass production
- Photo detector
 - MCP-PMT for TOP counter
 - 5mm x 20mm anodes
 - ? for Focusing DIRC, iTOP

What to do

- Confirm performance with
 - Simulation studies
 - Separation power
 - Multi-track events, beam BG
 - Need reconstruction software?
 - Proto-type
 - Need to check the time resolution
- Photo-detector performance
 - Lifetime for MCP-PMT
 - Production reliability

By next summer?

Cost

- Quartz
 - Okamoto optics and Zygo
 - ◆ 1800x18+2700万円 ~ 3.6M\$
 - ◆ \$88k x 32 + \$84k x 18 + x ~ 5.5M\$
- Photo detector
 - MCP-PMT; ~2.2M\$
- Electronics
- Structure

Trigger

Requested by trigger group

- Provide trigger timing with a few ns resolution
- Hit pattern