

RICH Calibration Plan

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at

PHENIX Calibration Task Force Meeting

on

April 11, 2000



- procedure to calibrate RICH to put it ready
 - calibration system
 - LED's controlled by the FEE
 - hardware parameters to set
 - probably only monitoring and stability check in Year-1
 - may adjust VGA especially after LV1 trigger is implemented
- estimation of how much data are required
 - data required for initial calibration
 - ~ 1 K single photon hits per PMT
 - ~ 10 K LED events
 - dedicated calibration run without beam ?
 - preferred
 - running time and frequency
 - 1-2 minutes \times 1 per shift



- dedicated calibration events during data taking
 - not planned
- real physics events for calibration and monitoring
 - timing calibration
 - offline analysis may or may not be needed
 - ~ 1 K real hits per PMT
 - ~ 1 M minimum bias events
 - ~ 1 shift
 - higher order calibration, *e.g.* eID tuning
 - offline analysis required
 - > 1 M peripheral events ?
 - < 1 per day
- offline calibration