

# 1 Preparations for the Director's Review

Following is a list of tasks that need to be done before the director's review.

1. Presentable Cerenkov design.
2. Presentable Calorimeter design.
3. Presentable MRPC design.
4. Settle on field maps.
5. Realistic CLEO baffle, acceptance, FOM.
6. Finish tracking framework.
  - (a) GEM response/digitization.
  - (b) Tracking in GEMC.
7. Background studies
  - (a) Resolve background discrepancies: GEANT3, GEANT4, FLUKA.
  - (b) Finish radiation hardness studies.
  - (c) Monte Carlo of backgrounds for Cerenkov detectors.
8. Quantitative DAQ analysis issues.
9. SIDIS Trigger.
10. PVDIS Precision Calibration.
  - (a) Plots of elastic peaks as a function of angle and energy (2.2-6.6 GeV).
  - (b) Plans for alignment of tracking detectors: Obtain straight tracks by rotating baffles and for design sieve slits.
11. PVDIS Systematic Issues.
  - (a) Estimate of the pion asymmetry based on the ratio of DIS pions to photopions.

(b) Determination of the spatial resolution of tracks hitting the calorimeter at  $35^\circ$ .

(c) Discuss rate-dependent effects, such as corrections to  $Q^2$ .

## 12. Calibration and Systematics for SIDIS.

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