Instrumentation Request List for Experiment E06-014

Beam Polarization [%] Beam polarimetry (Compton/Møller) Helicity flip scheme (delayed/quartet/duo) Energy range [GeV] Energy measurement (Arc/EP) Current range [μ A] Spot size (h x v) [σ] [μ m] Raster size (square/round) (h x v/ø) [mm] Energy spread [σ] Energy lock		>75% Moller, Compton (if available) G0-type (delayed?) 5.7, 1.14 (1 pass), 2.28 (2 pass) eP and Arc $0.2 - 20 \ \mu$ A typical (maximum ~80 μ A for BCM calibration) > 100 μ m 3x3 10 ⁴ On	
"HAPPeX feedbacks" should	l be enabled.		
Targets (specify thickness) Photon radiator LH2 (4/15/20 cm) LD2 (4/15/20 cm) Helium-3/4 (4/10/15/20 cm) Target ladder angle (w.r.t. beam) Solid targets (specify each)		Polarized He-3 target and Ref. cell (common to "Big Family") 0° multi-foil Optics w/ BeO and C foils	
Spectrometers (specify requ HRS-L Angle range [°] Momentum range [GeV/c] VDC1 VDC2 S0 S1 S2 Gas Cherenkov (long/short) A1 A2 FPP Preshower/Shower RICH	ired detectors) X 30° 70° 0.6 - 2.5 X X X X (S2m) X (short) X X X (optional)	HRS-R Angle range [°] Momentum range [GeV/ VDC1 VDC2 S0 S1 S2 Gas Cherenkov (long/sho Preshower/Shower	(Not used) Parked at >100° (c]
Trigger/DAQ Coincidence/single Define trigger	BigBite and start/stop so Triggers fo	l LHRS run in parallel (single-arm mode) cheme (as in LEDEx) would be useful (op r each arm are independent.	. Bob's 'syncronized' DAQ tional).

Other Instrumentation

BigBite w/ Electron Detector stack (3MWDC, Cerenkov, Shower, Preshower, Scintillator plane)

NOTE: The target ladder, LHRS, and BigBite detector stack will have the same configuration as for E06-010/-011.