

Brian Introduction - Physics of G_M^n , Suitability of SBS equipment, Collaboration

(20+20) - Measure R, reduced systematic sensitivities; proton/neutron; matched fiducial cuts;

QE vs. inelastic

-Collaboration size/membership

-Expected manpower availability at Jlab Six-eight months? Before running

-Expected manpower available during run (Will poll groups)

5) Equipment to achieve the scientific goals (general requirements)

-No tracking in hadron arm

-High rate tracking in BB (30 uA on 15 cm LD2 target)

-Good DAQ livetime at kHz trigger rates

-Good rejection of low energy electron/photon & pion triggers;

-Modest resolution q-vector direction (<10 mrad)

-Strong kick for proton ID (up to 1.17 Tm);

-Large (matched) angular acceptance in both arms

-Good neutron efficiency (high and well understood)

-Good position resolution $<\sim 10$ cm on HCal

5c) efficiency calibration

-MC efficiency estimates and variation

- $p(e,e')$ elastic for proton efficiency (and 48D48 off for n pointing alignment)

- $p(\gamma,\pi^+)$ for tagged n

Within 3% of endpoint to avoid $(\gamma,2\pi)$ (HRS)

Kinematics (\sim elastic kinematics but + polarity)

PID considerations

Rate estimate !!!!

Mark

1) Apparatus defined, including ownership, maintenance and control