Caryn Palatchi

11/15/2022

PQB list

* Install new helicity board at JLab
* Make injector DAQ capable of taking 2kHz data
* Beam noise assessment in injector with new helicity board at 2kHz
* Beam transport assessment in injector
* Beam monitor resolution assessment at 2kHz in the injector
* Wien flip symmetry test
* Wien flip frequency study – (address: how long between flips is feasible? is ~1week ok?)
* Beam noise in Hall test with new helicity board at 2kHz
* Beam monitor resolution assessment at 2kHz in the experimental hall
* Sensitivity measurement of Helicity Magnets to Hall
* Chopper scan
* transition time measurements with new PC driver for different RTP voltage settings
* installation of new PC driver
* Update injector DAQ software to assess laser table parameters such as quad-photodiode position differences and linear-array spot size asymmetries
* Test FFB system in experimental Hall with 2kHz data taking
* installation of wedged RTP cell (built at UVa)?
* RTP cell position difference feedback test in injector
* Beam noise test in Hall at 10GeV at 2kHz
* Sensitivity measurement of Helicity Magnets to Hall at 10GeV
* Characterize laser properties at PC and at cathode, adjust if necessary
* RTP cell alignment with spot size asymmetry measurements at 2kHz
* Tune beam test for timing of monitors
* Write ‘slow’-feedback code for position differences and RTP cell and/or helicity magnets
* Coordinate software tools for JLab staff to use to monitor PQB with alarms
* Test FFB system in experimental Hall at 10GeV with 2kHz
* Provide instructions for frequency of IHWP flips and Wein flips for MOLLER Run1