

## Physics update for VT students

\* **Brannon Semp** (now Sophomore at VT, working part time on research):

- keep studying **TCS transversely polarized**
- takes over background studies
- will finalize analysis of single & double spin asymmetries for proposal

\* **Tristan Anderson** (now graduate, VT)

- (don't use CPS) study feasibility for **DDVCS in Hall C** with extension of either DVCS or TCS setups and integrated **muon hodoscopes** ( $eP \rightarrow e'P'\mu\mu$ )

\* **Erik Wrightson** (graduated from VT physics & CS, now part-time VT)

- returning after senior project on J/psi
- study feasibility and setup for **J/psi near threshold off transverse polarized target** (production mechanisms, multi-gluon exchanges...) from transverse asymmetries
- complementary to TCS (if photoprod into electrons) or DDVCS (if electroprod into muons); larger angles

**For physics consideration and realistic experimental feasibility:  $\gamma P \rightarrow e+e- P'$  (all 3 final particles)**

**New target magnet?**

\* Work from other summer students that I am currently finalizing / extending for JLab, students occasionally involved

- **Tyler Schroeder** (W&M, senior): **J/psi modelization, phenomenology** (finalizing, plan to publish)
- **Camille Zindy** (master, Paris 6): **TCS off unpolarized proton and neutron** (flavor separation, precision x-section)

=> updates expected this fall for TCS and J/psi off transverse target, later this year for unpol. TCS and DDVCS