

Research activities (Matthias Burkardt):¹

- Aspects of quark orbital angular momentum: How does it reveal itself in experiments? Spin-orbit correlations?
- Generalized parton distributions (three-dimensional structure of hadrons). Results from this work have been widely cited, including proposed experiments for the \$ 350 Million, 12GeV upgrade at Jefferson Lab, proposal for proposed electron ion collider (EIC)
- Transverse Force/Torque on Quarks in DIS
- transverse force tomography
- focus on trying to understand what one can learn from certain experiments/matrix elements

funding (shared with Michael Engelhardt):

- continuously funded through DOE since 1996
- current support level: \$ 170,000/yr (together). \$ 5K increase from last period
- current grant just approved, funding through March 2022.
- co-PI on TMD collaboration (DOE). Funded and NMSU portion is bridged funding for new hire: Marc Schlegel

current grad student: F. Aslan (PhD May 2019), 12th PhD since 1995

current ugrad student: C. Brooks (class of 2019). 'magnetic polarizability of hadrons'. Hopefully draft paper by May...

creative activities (AY 18/19):

- 2 peer reviewed publications (several on way - one submitted Friday)
- ~ 10 invited talks/yr. at intl. conferences/workshops; had to turn down more invitations (*t* & \$)

Teaching:

- the usual: on average 3 classes per year; currently upper division UG

¹Absent from EPAB meeting since EPAB meeting was scheduled at same time as APS-GHP meeting, where he had accepted to present two invited talks.