The Hall D Physics Program

"The photon as a vector meson"

T.H. Bauer, R.D. Spital, D.R. Yennie, and F.M. Pipkin, Rev. Mod. Phys. **50**(1978)261

★ The spectroscopy of light mesons (up to $c\bar{c}$ threshold), their decay properties, and the study of gluonic excitations.

"What are the appropriate degrees of freedom in Strong QCD?"

★ The dynamics of ϕ photoproduction and rare decays of ϕ mesons, with eventual studies of *CP* and *CPT* violation.

Carried out with using photoproduction at high energies using linearly and circularly polarized photon beams.