

## Brian P. Quinn

### Education

1973-75 D.C.S. in Pure and Applied Science, Dawson College Montréal, Que.  
1975-78 B.Sc. with first class honours in physics, McGill University Montréal, Que.  
1978-84 Massachusetts Institute of Technology, Cambridge, MA  
Ph.D. in nuclear physics, Sept. 1984 under Prof. Aron Bernstein  
Thesis: "Deep Inelastic Electron Scattering from the Deuteron"

**Research Interests** Medium Energy Physics, primarily few body systems, nucleon structure and reactions testing elementary interactions and symmetries

### Professional History

1978-84 **Research assistant for M.I.T. Laboratory for Nuclear Science.**  
Responsible for fast electronics and data-acquisition for several experiments. Participated in electron scattering, photo-pion, and proton scattering experiments.

1984-87 **Post-doctoral research associate**  
1987-88 **Senior research physicist**  
**Carnegie-Mellon University Medium-Energy Physics Group.**  
Kinematic reconstruction and particle identification for  $\bar{p} p \rightarrow \bar{\Lambda} \Lambda$ .  
Participated in design and implementation of on-line analysis and of computing hardware for strangeness production in ultrarelativistic heavy ion collisions. Built remotely operated beam monitor detectors. Participated in running, including supervising graduate students for above and BNL experiment 788, weak decay of hypernuclei.

1988-1994 **Assistant professor of physics**  
1994-2001 **Associate professor of physics**  
2001- **Prof. of physics** (Tenure granted 1996.)  
Advisor for Ph.D. thesis work of Frank Merrill, Phil Koran, Kent Paschke, Jeff Lachniet, Megan Friend, and Abel Sun.  
Participated in design, coordination, and implementation of BNL experiments searching for H dibaryon. Built large high-resolution neutron counter stacks. Participated in design and implementation of VME-based data acquisition system at BNL and implemented similar system at CERN. Worked with Kent Paschke to extract full spin structure for  $\bar{p} p \rightarrow \bar{\Lambda} \Lambda$ . Developed custom electronics for  $G^0$  experiment, measurement of parity violating form-factors of the proton, at TJNAF. Worked with Jeff Lachniet to extract neutron magnetic form factor with unprecedented accuracy over wide kinematic range. Designed and proposed experiment which has been approved to extend magnetic form factor measurement to high momentum transfer. Active in Compton polarimetry measurements for parity-violation experiments, which was focus of thesis work for Megan Friend. Participating in design and construction of 45 ton hadron calorimeter at CMU.  
Taught wide variety of courses: large introductory series, lab courses, advanced undergraduate, graduate.