

# Curriculum Vitae

## Peter Semler Cooper

### Address

Fermi National Accelerator Laboratory  
MS 234, PO Box 500  
Batavia, Illinois 60510  
pcooper@fnal.gov (630) 840-2629 (phone) (630) 840-3867 (Fax)

### Positions

Senior Research Scientist, George Mason University, 2012-present.  
Scientist Emeritus, Fermi National Accelerator Laboratory 2012-present.  
Scientist II, Fermi National Accelerator Laboratory 1993-2012.  
Scientist I, Fermi National Accelerator Laboratory 1988-1993.  
Assistant Head - Computing Division 10/91 - 3/93  
Head - Central Computing Department 10/89 - 9/91  
Associate Head - Computing Department 3/88 - 9/89  
Associate Professor of Physics, Yale University, 1983-1988.  
Assistant Professor of Physics, Yale University, 1979-1983.  
Research Investigator, University of Pennsylvania, 1976-1978.

### Education

Ph.D. Yale University, 1975.  
B.A. Rutgers University, 1970.

### Professional Activities and Honors

Member CERN Experiment NA62 - Measurement of the Ultra Rare Kaon Decay  $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ .  
Spokesman, *CIRTE(T1017)* - COUPP Iodine Recoil Threshold Experiment.  
Member Coupp Experiment - A direct search for dark matter with a bubble chamber, since 2005.  
Fellow of the American Physical Society, 2004.  
Spokesman, *CKM(E921)* - A Precision Measurement of the Decay  $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ , 1998 - 2003  
Deputy Spokesman, *SELEX(E781)* - A Segmented Large X Charmed Baryon Spectrometer. 1989 - present  
Spokesman, *E715* - A Precision Measurement of the Decay  $\Sigma^- \rightarrow ne^- \nu_e$ , 1983 - 1989  
Member American Physical Society, since 1974.

## Committees

### **Kaon 2005 International Workshop**

Northwestern University, June 13-17, 2005.

Conference Co-chair

### **Flavour in the Era of the LHC -**

*a workshop on the interplay of flavour and collider physics.*

First Meeting, CERN, November 7-10, 2005.

International Advisory Committee

### **Fermilab Committee on Scientific Appointments 1998-1999**

FCSA - Fermilab's promotion and tenure review committee.

### **Fermilab Research Associate Committee 1995-2004**

Responsible for search, selection, interviewing and hiring of and average of six experimental high energy physics research associates per year.

## Selected Publications

- **Improved Limits on Spin-Dependent WIMP-Proton Interactions from a Two Liter CF<sub>3</sub>I Bubble Chamber**, E. Behnke, J. Behnke, S. J. Brice *et al.*, Phys. Rev. Lett. **106**, 021303 (2011), [arXiv:1008.3518 [astro-ph.CO]].
- **Searching for modifications to the exponential radioactive decay law with the Cassini spacecraft**, P. S. Cooper, Astropart. Phys. **31** (2009) 267-269., arXiv:0809.4248 [astro-ph].
- **Improved Spin-Dependent WIMP Limits from a Bubble Chamber**, E. Behnke *et al.* [COUPP Collaboration], Science **319**, 933 (2008), arXiv:0804.2886 [astro-ph].
- **First observation of the doubly charmed baryon  $\Xi_{cc}^+$** , M. Mattson *et al.* [SELEX Collaboration] Phys. Rev. Lett. **89**, 112001 (2002), arXiv:hep-ex/0208014.
- **Two RICH detectors as velocity spectrometers in the CKM Experiment**, J. Engelfried, P. S. Cooper, A. Morelos, I. Torres Nucl. Instrum. Meth. A **502**, 62 (2003), arXiv:hep-ex/0209020.
- **New limit for the family-number non-conserving decay  $\mu^+ \rightarrow e^+ \gamma$** , M. L. Brooks *et al.* [MEGA Collaboration] Phys. Rev. Lett. **83**, 1521 (1999), arXiv:hep-ex/9905013.
- **A Phototube RICH detector**, M. Pommot Maia, P. S. Cooper, L. Stutte, V. Solyanik, I. Filimonov and A. Nemitkin Nucl. Instrum. Meth. A **326**, 496 (1993).
- **A High Precision Measurement Of Polarized  $\Sigma^-$  Beta Decay**, S. Y. Hsueh *et al.* Phys. Rev. D **38**, 2056 (1988).