

Curriculum Vitae of Frank Chlebana

Frank Chlebana
MS 205
PO Box 500
Batavia, Illinois
60510, USA

Phone (office): (630) 840 4965
email: chlebana@fnal.gov

Education

PhD, Sept 1989 - Jan 1993: University of Toronto, Toronto Ontario, Canada.
MSc, Sept 1988 - Sept 1989: University of Toronto, Toronto Ontario, Canada.
BAsC, Sept 1983 - Apr 1988: University of Waterloo, Waterloo Ontario, Canada.

Employment

July 2008 - Present: Fermi National Accelerator Laboratory. Scientist II, USA.
June 2003 - July 2008: Fermi National Accelerator Laboratory. Scientist I, USA.
Feb. 1999 - June 2003: Fermi National Accelerator Laboratory. Associate Scientist, USA.
Nov. 1996 - Feb. 1999: Fermi National Accelerator Laboratory. Research Associate, USA.
Nov. 1993 - Nov 1996: NIKHEF (National Institute for Subatomic Physics), Postdoc, The Netherlands.

Selected professional activities

Jan 2013 - Present: Fermilab Particle Physics Division CMS Department Associate Head
Jan 2016 - Present: USCMS EndCap IB Chair
Jun 2015 - Present: Member of the CMS HGCal steering group
Jan 2012 - Present: Deputy L2 manager for the USCMS HCAL Phase 1 upgrade
Jan 2012 - Present: Member of the CMS HCAL Advisory Board
Jan 2012 - July 2015: USCMS election committee
Jan 2009 - Jan 2013: Member of the URA Thesis Award committee
Jan 2009 - Dec 2011: CMS HCAL Detector Performance Group Convener

Research Activities

Jan 2012 – Present: Associate head of the Fermilab Particle Physics Division CMS Department. Head of the Fermilab Calorimetry group. Deputy L2 manager for the USCMS HCAL Phase 1 Upgrade. Helped to develop the resource loaded schedule and prepare cost estimates, prepare documentation and presentations for the review of the USCMS phase 1 upgrade project. Monitor progress using earned value management techniques. Member of the CMS HCAL advisory board and participate in internal reviews of the HCAL. Convener of the HGCal Simulation and Performance subgroup. Participate in the development of the simulation for the Phase 2 calorimeter endcap options. Participate in performance studies of the High Granularity Calorimeter (HGC). Member of the HGCal steering group. Member of the USCMS election committee. Responsible for identifying candidates, distributing ballots, ensuring that the voting is done according to the established guideline, counting ballots, and informing the collaboration of the outcome of the elections. Participate as a member and chair of various CMS analysis review committees.

Jan 2009 – Dec 2011: Studied jet reconstruction methods for the CMS detector. Convener of the HCAL Detector Performance Group which was responsible for the simulation, reconstruction, calibration, monitoring, and performance feedback of the HCAL Barrel, EndCap, and Hadronic Forward calorimeters. Participate as a member and chair of various Analysis Review Committees.

Nov 1996 – Dec 2008: Defined the data format for the CDF Run 2. Led the team that designed and implemented the CDF Run Control and Data Acquisition framework. Supported and maintained the CDF

DAQ and online system during data taking. Designed and implementation of the data buffering and logging system to accommodate higher bandwidths. Received an Employee Performance Recognition Award (June 2004) for my work on the CDF Data Acquisition System (DAQ).

Selected publications

1. Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Phys.Lett. B710 (2012) 26-48.
2. Search for Supersymmetry in pp Collisions at 7 TeV in Events with Jets and Missing Transverse Energy. Phys.Lett. B698 (2011) 196-218.
3. CMS search plans and sensitivity to new physics with dijets. J.Phys.G36:015004, 2009.
4. Measurement of the Inclusive Jet Cross Section at the Fermilab Tevatron p-pbar Collider Using a Cone-Based Jet Algorithm Phys.Rev.D78:052006, 2008.
5. Measurement of the Two Jet Differential Cross-Section in Proton Anti-Proton Collisions at $S^{1/2} = 1800$ -GeV. By CDF Collaboration (T. Affolder et al.). Phys. Rev. D64:012001, 2001, Erratum-ibid.D65:039902, 2002.
6. A Measurement of the Differential Dijet Mass Cross-Section in P Anti-P Collisions at $S^{1/2} = 1.8$ -TEV. By CDF Collaboration (T. Affolder et al.). Phys. Rev. D61:091101, 2000.
7. Measurement of the Proton Structure Function F2 From the 1993 HERA Data, M. Derrick et al., Z. Phys. C65: 379-398, 1995.
8. Measurement of the Proton Structure Function F2 in ep Scattering at HERA, M. Derrick et al., Phys. Lett. B316: 412-426, 1993.