Curriculum Vitae
Steven Michael Goldfarb

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PERSONAL DATA

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Telephone: +41.22.767.1226 **Telefax:** +41.22.767.8350 **E-mail:** Steven.Goldfarb@cern.ch
Born: 13 August 1963, USA (Age 41) **Nationality:** American, French **Marital Status:** Married

EDUCATION

Ph.D. Physics **University of Michigan, 1991**. Dissertation: *A Determination of the Number of Neutrino Species from the* $\mathrm{e^+e^-} \rightarrow hadrons$ *Cross Section Measured at the Z Peak.* Committee: B. Roe (advisor), M. Brake, H. Gustafson, J. Krisch, M. Veltman.

B.S. Mathematics **University of Michigan, 1985**, *summa cum laude.*

RESEARCH ACTIVITIES

2001 - present **Assistant Research Scientist, University of Michigan**

- *ATLAS Muon Software Coordinator:* Coordination of software development, including high-level design, planning, resource management. Member of Software Project, Muon Management Boards.
- *Chair, LCG RTAG on Collaborative Tools:* Preparation of report providing recommendations to the LCG Project Execution Board for collaborative tool support for the LHC.
- *On Site Coordinator, CERN REU Program:* Coordinate activities at CERN for the REU Summer Student Program, including student selection, project solicitation, oversight.
- *MOORE Software Team:* Development and planning for MOORE Reconstruction program.
- *ATLAS Release Coordinator, Interim Librarian:* Coordinated one complete release cycle for offline software; stood in as librarian for a six month period 2003-2004.
- *U.S. Atlas Collaborative Tool Support:* Coordination of activities at CERN for web lecture recording (WLAP), video conferencing facility R & D.

1998 - 2001 **Physics Consultant, Senior Research Fellow, University of Michigan**

- *ATLAS Muon Database Task Leader:* Offline database software development.
- *U.S. ATLAS Muon Software Project Leader:* Coordination of U.S. software activities.
- *Collaborative Tool Research and Development:* Creation of WLAP, R & D.
- *REU Summer Student Program at CERN:* On-Site management.

1993 - 1998 **Chercheur Post-Doctoral, Université de Lausanne**

- *B Spectroscopy Group Leader for the L3 Experiment at CERN:* First measurements of the spin of the B^* meson and of the individual masses, decay widths and production rates of $l = 1$ B mesons.
- *Electromagnetic Calorimeter Low-Angle Radiation Monitor:* Design and installation.
- *System Management:* Cluster of Silicon Graphics Unix workstations.

1991 - 1993 **Research Consultant, Northeastern University**

- *Analysis of b Hadron Events in L3 Data:* Inclusive lifetime measurement and feasibility studies for B^* meson spin and fragmentation measurements.

1986 - 1991 **Graduate Student, University of Michigan**

- *L3 Hadron Calorimeter:* Assembly, testing of wire chambers, test beam studies, installation.
- *L3 Scintillator System:* Testing and installation of photomultipliers and counters.
- *Software Development:* Reconstruction and graphics for the L3 hadron calorimeter.
- *Analysis of First Z Decays at LEP:* L3 hadronic event selection and extraction of the lineshape.

TEACHING AND STUDENT SUPERVISION

1999-present **CERN/REU Summer Student Supervisor**, Supervised 1 or 2 REU or CERN Summer Students each year during 6-8 week periods. Projects ranged from ATLAS offline software development to collaborative tool R & D, including the WLAP pilot project.

1997-1999 **Thesis Committee Member**, *University of Nijmegen and NIKHEF.* Supervised a PhD student's analysis and subsequent dissertation: "Excited Beauty at L3," M. van Hoek, L3-Note-2459 (1999).

1994-1995 **Expert Aux Examens Pratiques de Diplôme**, *Ecole Polytechnique Fédérale de Lausanne.* Supervised a fourth-year engineering student in her practical diploma studies.

1985-1986 **Teaching Assistant**, *University of Michigan,* Taught eight two-hour freshman mechanics and electromagnetics laboratories.

SELECTED RECENT PUBLICATIONS

Report of the LHC Computing Grid Project RTAG 12: Collaborative Tools, T. Doyle *et. al., To be published as* CERN LCG RTAG12 Final Report (2005).

A Step Towards A Computing Grid For The LHC Experiments : ATLAS Data Challenge 1, Sturrock, R *et. al.*, ATLAS Collaboration, CERN-PH-EP-2004-028 (2004).

The Web Lecture Archive Project: Archiving ATLAS Presentations and Tutorials, J. Herr and S. Goldfarb, ATL-ENEWS-2004-014 (2004).

A Hierarchical Software Identifier Scheme for the ATLAS Muon Spectrometer - Version 2.0, A. DiCiaccio *et. al.*, ATLAS Note ATL-MUON-2004-003 (2004).

Muon Identification and Combined Reconstruction for the ATLAS Detector at CERN-LHC, J. Shank *et. al.*, Como 2003, Astroparticle, particles and space physics, detectors and medical physics applications 443-447 (2003).

Opportunities for Use and Development of Collaborative Tools in ATLAS, S. Goldfarb *et. al.*, ATLAS Note ATL-GEN-2003-002 (2003).

Moore as Event Filter in the ATLAS High Level Trigger, D. Adams *et. al.*, ATLAS Notes ATL-SOFT-2003-008 and ATL-DAQ-2003-020 (2003).

Track Reconstruction in the ATLAS Muon Spectrometer with MOORE, D. Adams *et. al.*, ATLAS Note ATL-SOFT-2003-007 (2003).

Report of the LHC Computing Grid Project Detector Geometry & Material Description RTAG, J. Boudreau *et. al.*, CERN LCG RTAG7 Final Report (2002).

Long Precision Drift Tube Production at Michigan, E. Diehl *et. al.*, ATLAS Note ATL-MUON-2002-012 (2002).

Michigan ATLAS MDT Chamber Mass Production, E. Diehl *et. al.*, ATLAS Note ATL-MUON-2002-006 (2002).

ATLAS Muon Spectrometer Detector Description Database Planning Document, S. Goldfarb, ATLAS Note ATL-MUON-2001-015 (2001).

A Hierarchical Software Identifier Scheme for the ATLAS Muon Spectrometer, A. DiCiaccio *et. al.*, ATLAS Note ATL-MUON-2001-014 (2001).

Definition of Off-line Readout Identifiers for the ATLAS Detector, Edited by S. Goldfarb and A. Schaffer, ATLAS Note ATL-SOFT-2001-004 (2001).

WLAP: The Web Lecture Archive Project, N. Bousdira, *et. al.*, University of Michigan Publication UM-ACP-2001-003 (2001), CERN Publication CERN-OPEN-2001-066 (2001).

Lecture Object: An Architecture for Archiving Lectures on the Web, G. Vitaglione *et. al.*, Proceedings of the Second Topical Seminar on Global and Local Networks for Research and Education, Pontignano 2000, CERN-OPEN-2001-020 (2001).

COMPLETE LISTING OF PHYSICS PUBLICATIONS

A complete listing of physics publications is available on the world-wide web at:

`http://cern.ch/goldfarb/Publications.html`