

Curriculum Vitae *Paula Anna-Maria Eerola*

Personal data. Born January 10, 1962 in Joensuu, Finland. Not married. One child born in 1995. Finnish and Swedish citizen. Mother tongue Finnish. Fluent in Swedish and English (oral, written). A fair knowledge of French and German.

Current position. Professor of Experimental Elementary Particle Physics at the University of Helsinki from September 1st 2008.

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Home address. Kutteritie 6B, FI-00870 Helsinki, Finland. Tel. +358-44-217 4526.

Docent of experimental particle physics in University of Helsinki, Finland, 1994.

Doctor of Philosophy (PhD) in experimental particle physics, University of Helsinki, Finland, 1990.

Master of Science in physics, University of Helsinki, Finland, 1985.

Previous professional appointments

1.6.2001- Professor of Particle Physics, Division of Experimental High Energy Physics, Lund University, Sweden. On leave of absence 15.8.2008-

1.7.1998-30.6.2004 **Special Researcher** (Swedish Research Council), Lund University, Sweden.

1.8.-31.12.1997 **Associate professor locum**, Physics Department, University of Helsinki, Finland.

1.8.1996-31.7.2001 **Assistant professor** in experimental particle physics, Physics Department, University of Helsinki, Finland. On leave of absence 1.8.1996-31.5.1997, 1.8.-31.12.1997, 1.7.1998-31.7.2001.

1.6.1993-31.5.1997 **CERN Staff Research Physicist**, Particle Physics Experiments Division, CERN, Geneva, Switzerland.

1.1.1994-31.12.1998 **Research Assistant** in the Research Institute for High Energy Physics, University of Helsinki, Finland. On leave of absence 1.1.1994-31.12.1998.

1.6.1991-31.5.1993 **CERN Research Fellow**, Particle Physics Experiments Division, CERN, Geneva, Switzerland.

15.1.1991-31.5.1991 **Junior Research Associate locum**, Academy of Finland, Finland.

1.1.1988-31.12.1992 **Research Assistant** in the Research Institute for High Energy Physics, University of Helsinki, Finland. On leave of absence 1.1.1988-31.12.1990, 15.1.1991-31.12.1992.

1.1.1987-31.12.1990 **Research Assistant**, Academy of Finland, Finland.

15.9.1984-31.12.1986 **Research Assistant locum** in the Research Institute for High Energy Physics, University of Helsinki, Finland.

Publications. 121 publications in journals and collaboration publications, 40 publications in conference proceedings, 5 edited publications, 1 book chapter, 28 preprints and technical notes. See the complete publication list in <http://www.helsinki.fi/~paerola/pub.pdf>

Present research interests. *CMS experiment (2008-):* All aspects of B physics at LHC-CMS. Physics beyond the Standard Model at LHC-CMS. Application of GRID-technologies to LHC data processing. CMS Tracker.

Past research interests.

ATLAS experiment (1992-2008): All aspects of B physics at LHC-ATLAS. Physics beyond the Standard Model at LHC-ATLAS. Design and construction of the ATLAS Transition Radiation Tracker. B-physics triggers, track trigger using the ATLAS Transition Radiation Tracker.

DELPHI experiment (1985-1994): Soft gluon structure in hadronic final states. Heavy flavours in Z^0 Decays. Neural Networks. Search for non-minimal Higgs bosons. DELPHI microvertex detector: Mechanics of the detector upgrade. Muon trigger and event tagging in the DELPHI Hadron Calorimeter.

Linear colliders (1991-1992): Simulation of charged Higgs boson production.

Analysis of UA1 data (1984-1985): Measurement of the strong coupling constant from jet rates.

UA2 experiment (1984): on-line filter for top-quark searches.

Co-convener of the CMS B-physics analysis group 2009-
 Member of the CMS Physics Coordination 2009-
 Main coordinator of a NordForsk Joint Nordic Infrastructure Project 'LHC and Beyond' 2008-2010.
 Main coordinator of a NordForsk Research and Training Network 'Discovery Physics at LHC' 2001-2007.
 Member of the NorduGRID Steering Group since 2000.
 Member of the Board of the Swedish LHC-consortium 1998-2008.
 Member of the ATLAS TRT Steering Committee 1998-2005, and TRT Institute Board 2006-2008.
 Member of the ATLAS Physics Coordination 1997-2005.
 Co-convener of the B-physics working group of ATLAS 1993-2005.

Member of the **Board of the High Energy Particle Physics (HEPP)** division of the European Physical Society (EPS) 2008-.

Division Head, Experimental High Energy Physics, Lund University, Sweden, 2005-2008. On leave of absence 15.8.2008.

Member of the **Swedish National Committee for Pure and Applied Physics**, The Royal Swedish Academy of Sciences, 2004-.

Member of the **Board of the Swedish Physical Society**, 2004-.

Member of **Kungliga Fysiografiska Sällskapet**, 2007-.

Member of the **Physics Panel, Capacities Programme, FP7, European Commission**. Evaluation of proposals for Research Infrastructures 2008.

Member of the **Physics Panel, People Programme, FP7, European Commission**. Evaluation of proposals for Marie Curie fellows 2007-2008.

Member of the **Physics Panel, Human Potential Programme, FP6, European Commission**. Evaluation of proposals for Research and Training Networks in 2003, Marie Curie fellows 2004-2006.

Member of the **Physics Panel, Human Potential Programme, FP5, European Commission**. Evaluation of proposals for Research and Training Networks in 1999.

Member of the **KFI (Research Infrastructure Committee) Evaluation group 1 of the Swedish Science Research Council** 2005-.

Member of the **Evaluation group NT-M of the Swedish Science Research Council**. Evaluation of applications to VR in 2001-2004.

Member of the **Evaluation group 1 under the Physics Committee of the Swedish Natural Science Research Council**. Evaluation of applications to NFR and FRN in 1999-2000.

Member of the **Board of Directors of SNIC**, Swedish National Infrastructure for Computing 2002-.

Nordic Member of the **Project Overview Board** of the LHC Computing Grid project 2003-.

Nordic Member of the **LHC Computing Grid Memorandum-of-Understanding taskforce** 2004-2005.

Member of the **Board of the Physics Institution** of Lund University 2005-2008.

Member of the **Equal Opportunities Committee** of the Science Faculty, Lund university, 2004-2008.

Member of the **Staff Appointments** in Physics and Mathematics in the Science Faculty, Lund University, 2006-2007, **Staff Appointments** in the Science Faculty, Lund University, 2008.

Member of the **SWEGRID** committee of the Swedish Natural Science Research Council 2000-2002.

Member of the **CERN-committee** of the Swedish Natural Science Research Council 1999-2005.

Representative of Finland in **Restricted ECFA** - European Committee for Future Accelerators 1997-1998.

Member of the ATLAS Editorial Committee (editors of ATLAS publications) 2000-2003.

Main editor of the ATLAS Physics Performance Technical Design Report (c. 1000 pages), 1999.

Member of the DELPHI Editorial Committee (editors of DELPHI publications) 1992-1993.

Linear Collider Workshop in Saariselkä, Finland, September 1991. Editor of the proceedings.

Member of the Editorial Board of Advances in High Energy Physics.

Referee for European Physical Journal C, IEEE Transactions on Nuclear Science, and Journal of Instrumentation. Frequently trusted as an expert evaluator for faculty positions and PhD theses.

Main supervisor of 5 MSc theses, out of which the thesis by A. Papadelis was granted a prize for "the best Swedish master thesis in physics in 2004" by a jury consisting of members of the Royal Swedish Academy of Sciences. Main supervisor of one Lic.Sc. thesis, one PhD thesis.