CURRICULUM VITAE

Name: Kari-Pekka **ENQVIST**

Date and place of birth: 16th of February, 1954, Lahti, Finland

Current position: Professor of Cosmology, Physics Department, University of Helsinki 2001-; Theory Programme Director, Helsinki Institute of Physics

Education and training:

• graduated from the University of Helsinki, Finland, April 1980, majoring in physics with minors in theoretical physics, mathematics, astronomy and philosophy (additional degrees in psychology and social psychology); Licentiate of Philosophy (a postgraduate intermediate degree), May 1981, at the University of Helsinki

• Ph.D. in Elementary Particle Physics at the University of Helsinki, May 1983 (supervisor prof. Masud Chaichian, University of Helsinki).

Previous professional appointments:

• *1978–1983* Research assistant at the Department of High Energy Physics and the Research Institute for Theoretical Physics, University of Helsinki, Finland.
• *1984–1986* Research fellow at CERN, TH division, Geneva, Switzerland (24 months).
• *1986–1987* Research fellow at the Physics Department, University of Wisconsin, Madison, USA (12 months).
• *1987–1990* Senior research fellow at the Research Institute for Theoretical Physics, University of Helsinki (22 months).
• *1988–1989* Acting associate professor at the Department of Theoretical Physics, University of Helsinki (12 months).
• *1990–1994* Assistant professor, Nordita, Copenhagen, Denmark (49 months).
• *1995-1996* Acting professor, Department of Physics, University of Helsinki (17 months).
• *1996-2000* Senior research fellow, Academy of Finland.

• Docent of Theoretical Physics at the University of Helsinki, December 1984; Research Associate, Dept. of Theoretical Physics, University of Helsinki, 1985-1995; Senior Research Associate, Theory Division, Physics Department, University of Helsinki (on a leave of absence), 1996-

• Co-Investigator in the Low Frequency Instrument Consortium of the ESA Planck Surveyor Mission 1998-

Research awards, honours, stipends: Valtion Tiedonjulkistamispalkinto 1995; Lauri Jäntti foundation award 1997; The Magnus Ehrnrooth Foundation Physics Award 1997; Tieto-Finlandia 1999

Other academic and professional activities:

• 167 scientific publications (in English); total number of citations in the SLAC QSPIRES database: 4137. The 5 most cited papers in the list of publications are: 42 (cited 263 times), 38 (cited 200 times) 45, (cited 189 times), 94 (cited 180 times) and 18 (cited 140 times).

• Opponent at a PhD dissertation: Juha Peltoniemi (Helsinki University); September 1991; Stefan Åminneborg (Stockholm University, Sweden) April 1995; David Persson (Chalmers University of Technology, Göteborg, Sweden) November 1996; co-supervisor of Kimmo Kainulainen (PhD 1991); supervisor of Jarkko Ahonen (PhD 1998), Syksy Räsanen (PhD 2002) Antti Sorri (PhD 2002), Asko Jokinen (PhD 2003), Martin Sloth (PhD 2003); currently supervising 4 graduate students; supervisor of 12 M.Sc. thesis. Referee for 5 PhD thesis.

• Organiser of: Nordita Summer School (Porvoo, June 1989); Nordita Workshop on Electroweak Matter (Copenhagen, January 1991); Nordita Program of Neutrino Physics (Copenhagen, May-June 1992); Nordic-Baltic Summer School (Lohusalu, Estonia, July 1992); Workshop on the Electroweak Phase Transition (Helsinki 1994); Summer School and Mini-Workshop in Astroparticle Physic (Denmark 1995); Neutrino 96

(Helsinki 1996); EPS-99 (Tampere 1999); LFI Consortium Meeting (Saariselkä 2000); Cosmo01 (Rovaniemi 2001).

• Member of the Nordic Networks "The Standard Model in Extreme Environments" 1997-1999; "Theoretical Particle Physics and Cosmology" 2002-; "Nordic Project on Astroparticle Physics and Cosmology" 2002-; associated contractor for the EU Human capital and mobility network "Theoretical astroparticle physics" (1993-1996); Coordinator of the EU Training and Mobility programme "A Critical Investigation of Electroweak Baryogenesis Models" (1996-1998); Helsinki node coordinator of the EU 5th framework programme "Supersymmetry and the early universe" (2000-2003); member of the NorFA network "Theoretical Particle Physics and Cosmology" (2001-); member of "Nordic Project on Astroparticle Physics and Cosmology" (2001-)

• Major research grants: EU TMR 1996-1998 (98 kEuro); Particle cosmology 1997-1999 (Academy of Finland, 90 kEuro); Temperature fluctuations of the microwave sky, 2000-2001 (Academy of Finland, 168 kEuro); EU 5th FP 2001-2003 (150 kEuro); Planck Surveyor Physics 2001-2004 (Academy of Finland, 260 kEuro); Planck Surveyor Physics 2004-2007 (Academy of Finland, 190 kEuro)

• Chairman for the Nordita Subatomic Physics Committee, 1999-2001; Member of Nordita Board (reserve), 2002- member of the ESA Fundamental Physics Advisory Board, 2001-2003; member of the Finnish Society of Sciences and Letters, 2002-; Finnish Planck Steering Group, 2000-

• Referee for Phys. Rev. D, Phys. Rev. Lett., Phys. Lett. B, Nucl. Phys. B

• In the International Advisory Committee of: 2nd Tallinn Symposium on Neutrino Physics (Estonia 1993); Trends in Astroparticle Physics (Sweden 1994); Nordic Symposium 'Cosmology: from COBE to galaxy formation' (Denmark 1997); Nordic Winter School on Particle Physics and Cosmology (Norway, January 2-8 1999); Cosmo2000 (Korea 2000); Cosmo02 (Chicago 2002); Advisor to the Research Council of Norway; Advisor to the Academy of Finland.

• recent conference attendance: Moriond (Les Arcs) March 1990; Neutrino 90 (CERN) June 1990; 2nd Workshop on Finite Temperature Field Theories (Tsukuba) July 1990; 25th Int'l HEP Conference HEP (Singapore) August 1990; Invited talk at the Tallinn Symposium on Neutrino Physics (Lohusalu, Estonia) October 1990; Lepton-Photon 91-HEP Conference (Geneva), July 1991; Invited talk at the Int. Workshop on Electroweak Physics Beyond the Standard Model, (Valencia), October 1991; Invited talk at the Nordic Meeting on Particle Physics (Spåtind, Norway), January 1992; Invited talk at the XXVI Int'l HEP Conference (Dallas), August 1992; Invited talk at the Kazimierz meeting (Poland), May 1993; Invited talk at Electroweak Phase Transitions (Sintra, Portugal) March 1994; Neutrino 94 (Eilat, Israel), June 1994; Invited talk at the XXVII Int'l HEP Conference (Glasgow), July 1994; Trends in Astroparticle Physics (Stockholm) September 1994; TAN network meeting (Annecy) November 1994; 4th International Workshop on Theoretical and Phenomenological Aspects of Underground Physics (Toledo) September 1995, Uppsala/Nordita Workshop in Astroparticle Physics, April 1996; Invited talk at Strong and Eleectroweak Matter '97, (Eger, Hungary), May 1997; Invited talk at Cosmo 97-conference (Ambleside, Great Britain), September 1997; Invited talk at Nordic Symposium 'Cosmology: from COBE to galaxy formation' (Copenhagen), December 1997; Invited talk at PASCOS 98 Conference (Boston) March 1998; Invited talk at Hot Non-Perturbative Particle Physics Network meeting (Copenhagen) April 1998; Invited talk at the Planck Miniworkshop (Helsinki University) May 1998; Invited talk at CAPP-98 Conference (CERN), June 1998; Talk at SUSY98 Conference (Oxford), July 1998; Invited talk at DARK98 Conference (Heidelberg), July 1998; Invited talk at Strong and Electroweak Matter conference (Copenhagen) December 1998; Invited talk at COSMO99 Conference (Trieste), September 1999; Nordic Project Meeting Neutrino physics and Cosmology, Copenhagen March 2000; ESA-CERN workshop, CERN April 2000; LFI Consortium meetings Saariselkä, Finland, February 2000, and Jodrell Bank, Great Britain, October 2000; "Supersymmetry in the Early Universe" Network meeting, CERN, April 2001; NorFA network "Theoretical Particle Physics and Cosmology" meeting, Copenhagen, January 2002; Nordic meeting on Astroparticle Physics. Nordita, Copenhagen March 2002; Invited talk at "Supersymmetry in the Early Universe" Network meeting, Oxford, September 2002; Nordic Project on Astroparticle Physics and Cosmology meeting, Copenhagen, March 2003; Nobel Symposium 2003, "Cosmology & String Theory", Sigtuna, Sweden, August 14-19, 200; Invited talk at Cosmo03, Ambleside, England, August 25-29, 2003; Invited talk at Gunnar Nordström Symposium, Helsinki, August 27-30, 2003

Other activities

• Vice president of the Finnish Sceptical Society SKEPSIS 1996-1998; board member of the Finnish Amateur Astronomical Society URSA 1999-2002; subeditor of the Finnish Physical Society Journal *Arkhimedes* 1997-2001; member of the Finnish Unesco Committee (Section of Natural Sciences) 1999-2001; member of the board of the Finnish Science Center *Heureka* 2000-2002; member of the YLE Teema-television channel scientific advisory board 2002-; organizer of the exhibition "Mahdollisuuksia", Lasipalatsi, Helsinki, 13.1.-7.2.1999

• about 140, mainly popular science articles (in Finnish), including the books *Tyhjästä syntynyt* (WSOY 1994, with J. Maalampi; short listed for the annual Tieto-Finlandia Award); *Näkymätön todellisuus* (WSOY 1996; winner of the Lauri Jäntti foundation award; short listed for the annual Tieto-Finlandia Award), *Olemisen porteilla* (WSOY 1998) (winner of the annual Tieto-Finlandia Award), *Valo ja varjo* (WSOY 2000) and *Kosmoksen hahmo* (WSOY 2003).