

Curriculum Vitae

Per B. Lilje



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Born: 11 March, 1957

Nationality: Norwegian

Family: Married to Rina Lilje, 3 adult children

Present position: Professor and Head of Department

Education: Ph.D., University of Cambridge, UK, defended 24 February 1988
(supervisor: G. Efstathiou)

Cand. real. (M.Sc.), University of Oslo, January 1985 (supervisors: R. Stabell and B. J. T. Jones)

Cand. mag. (B.Sc.), University of Oslo, 1981.

University of Oslo Research Leadership Programme 2007 – 2008.

Teaching and Learning in Higher Education course, University of Oslo, 1994.

Work experience: January 2005 – December 2012 and January 2017 – December 2024:
Head of Institute of Theoretical Astrophysics, University of Oslo.

January 1993 – : Professor, Institute of Theoretical Astrophysics,
University of Oslo.

September 1992 – December 1992: Associate professor, Institute of
Theoretical Astrophysics, University of Oslo.

September 1989 – August 1992: NORDITA Fellow, NORDITA,
Copenhagen.

January 1988 – August 1989: Post-Doctoral Research Fellow, Canadian
Institute of Theoretical Astrophysics, Toronto.

February 1982 – September 1983: Observing assistant, Oslo Solar Observatory.

October 1976 – September 1977 and March 1978 – September 1978: Military service.

Sabbaticals: August 2013 – June 2014: Visiting research fellow, DARK Cosmology Centre, University of Copenhagen.

August 1997 – June 1998: Visiting research fellow, Centre for Advanced Study, Norwegian Academy of Science and Letters.

Memberships: Member, Norwegian Academy of Science and Letters
Member, International Astronomical Union
Fellow, Royal Astronomical Society
Member, American Astronomical Society
Member, European Astronomical Society

Prizes: Gruber Foundation Cosmology Prize (shared by 43 members of the Planck Team).

Fields of interest: Large-scale density and velocity fields
Deviations from isotropy and Gaussianity
Theoretical cosmology
Formation and evolution of clusters of galaxies
Leading space research projects, including interaction with industry

International duties:

Delegate, *ESA Science Programme Committee*, 2000–.

Member, Steering Committee for *Office for Young Astronomers*, *International Astronomical Union*, 2019 –.

Member, Board of Directors, *European Solar Telescope*, 2020 –.

Member, Governing Board, *NORDITA*, 2022 – 2025.

Alternate Member, Governing Board, *NORDITA*, 2019 – 2022.

Member of Board of Directors, *Astronomy and Astrophysics (Journal)*, 2016 –.

Member, ERC Starting Grant Panel *PE9 Universe Science*, 2014 –2020.

Member, Panel reviewing the Danish model for research-supporting activities (*Danish Ministry of Higher Education and Science*), 2019–2020.

Member, Expert Panel reviewing Danish membership in Large International Research Infrastructures (*Danish Ministry of Higher Education and Science*), 2017–2018.

Member, *Nordic Optical Telescope Council*, 2003-2015.

Member (Chair 1995–1996, 2004–2007) *Nordic Optical Telescope Scientific-Technical Committee*, 1993–2015.

Member, *European Space Sciences Committee*, 2006–2012.

Member, *OECD Global Science Forum Committee on Large-scale Projects in Astronomy and Astrophysics*, 2003–2004.

Member, *ESA Astronomy Working Group*, 1996–1999.

Member, *European Commission Study Panel on Ground Astronomy and Astrophysics*, 1994–1995.

Member, *NORDITA Astrophysics Committee*, 1994–1999.

Organizer, *Nordic Research Network of Cosmology and Galaxy Formation*, 1993–1996.

Leader, *Nordic-Baltic Summer School on Cosmology*, Tartu, Estonia, 1995.

Leader, *NORDITA Summer school “Galaxies: Structure, Formation and Evolution”*, 1992.

Co-leader, *NORDITA Summer school “Cosmology”*, 1990.

Evaluation committees for appointments, grants etc.: *Swedish Space Science Board, Swedish Research Council, Finnish Academy, Danish Research Council, University of Iceland, University of Copenhagen, Lundbeck Foundation (Denmark), Research Council of Austria, Foundation for Polish Science, European Science Foundation*

Peer review for journals: *MNRAS, Astrophysical Journal*

External member Ph.D. degree committees: *University of Copenhagen, Norwegian University of Science and Technology*.

National duties: Chair, *National Committee for Physics (Universities Norway)*, 2019 – 2021.

President, *National Committee for Astronomy (IAU)*, 2018 –.

Member of Board of Directors, *NAROM (Norwegian Centre for Space-related Education)*, 2013 – 2020.

Board, *University of Oslo Library*, alternate member 2013 – 2017, member 2017 – 2018.

Director of Studies, *Institute of Theoretical Astrophysics, University of Oslo*, June 2003–December 2004.

Chair, *Astronomy Master degree programme committee, University of Oslo*, 2003–2005, 2015 – 2016.

Chair, *National Norwegian Evaluation Committee for Promotion from Associate Professor to Professor (in Astrophysics)*, 1993, 1998.

Member, *Physics, astronomy and meteorology Bachelor degree committee, University of Oslo*, 2003–2005.

PI for external grants 1997 –:

01.01.2024 – 31.12.2028: *Norwegian Partnership in the Nordic Optical Telescope (NOT)*: NOK 5,900,000.

01.12.2021 – 31.12.2025: *Norwegian Participation in Euclid: Early Post-Launch Phase*, Research Council of Norway, NOK 11,683,000.

01.09.2019 – 31.08.2022: *Norwegian Participation in Euclid: Implementation phase, part 3*, Research Council of Norway, NOK 8,000,000.

01.01.2019 – 31.12.2023: *Norwegian Membership in the Nordic Optical Telescope (NOT)*: NOK 4,368,000.

01.01.2017 – 30.06.2018: *Euclid NISP NI-SSS and NI-SA-HP Phase D*, European Space Agency PRODEX programme, €771,185.

01.06.2015 – 01.12.2022: *Euclid Ground Segment*, European Space Agency PRODEX programme, €1,279,725.

01.01.2015 – 31.12.2018: *Norwegian participation in Euclid: Implementation phase, part 2*, Research Council of Norway, NOK 5,000,000.

01.01.2015 – 31.03.2015: *Euclid conference “Beyond LDCM”*, Research Council of Norway, NOK 250,000.

01.01.2014 – 30.09.2017: *Norwegian use of the Planck LFI instrument: Analysis phase*, Research Council of Norway, NOK 6,000,000.

01.07.2012 – 31.12.2016: *NISP Structural Elements*, European Space Agency PRODEX programme, €1,742,000.

01.01.2012 – 31.12.2015: *Synergy in Computational Astrophysics*, Research Council of Norway, NOK 4,500,000.

01.01.2012 – 30.04.2015: *Norwegian participation in Euclid: Implementation phase*, Research Council of Norway, NOK 4,810,000.

01.01.2011 – 31.12.2013: *Norwegian use of the Planck LFI instrument and QUIET*, Research Council of Norway, NOK 2,736,000.

01.01.2011 – 31.07.2013: *Norwegian participation in Euclid: Massive neutrinos and dark couplings*, Research Council of Norway, NOK 1,957,000.

01.01.2010 – 31.12.2010: *Norwegian participation in Euclid, ESA's next cosmology mission*, Research Council of Norway, NOK 100,000.

01.01.2008 – 30.09.2011: *Norwegian use of the Planck LFI instrument*, Research Council of Norway, NOK 5,029,700.

01.06.2007 – 31.12.2010: *Development and validation of algorithms for Planck LFI using QUIET data*, European Space Agency PRODEX programme, €282,000.

01.01.2007 – 31.12.2009: *Norwegian participation in the Planck LFI instrument: Pipeline development and QUIET*, Research Council of Norway, NOK 2,200,000.

01.07.2006 – 30.06.2009: *Norwegian participation in the Planck LFI instrument and cosmology with the Nordic Optical Telescope: Supplementary application*, Research Council of Norway, NOK 2,425,000.

01.04.2005 – 31.03.2006: *Exploring the universe with cosmic microwave background non-Gaussianity*, European Commission, €40,966.

01.01.2005 – 31.12.2007: *Norwegian participation in the Planck LFI instrument and cosmology with the Nordic Optical Telescope*, Research Council of Norway, NOK 2,905,000.

01.01.2003 – 31.07.2006: *Real space methods for analyzing random fields, with applications to the cosmic microwave background*, Research Council of Norway, NOK 1,800,000.

01.01.2003 – 31.12.2004: *Norwegian participation in the Planck LFI instrument and cosmology with the Nordic Optical Telescope*, Research Council of Norway, NOK 1,430,000.

01.01.2001 – 31.12.2002: *Norwegian participation in the Planck LFI instrument and cosmology with the Nordic Optical Telescope*, Research Council of Norway, NOK 4,417,000.

01.11.1998 – 01.12.2000: *Norwegian participation in the Planck LFI instrument*, Research Council of Norway, NOK 1,200,000.

01.01.1998 – 31.12.1998: *Studying the possibilities for Norwegian participation in the ESA Space mission Planck*, Research Council of Norway, NOK 20,000.

01.01.1997 – 31.12.1998: *Instrumentation for the Nordic Optical Telescope*, Research Council of Norway, NOK 1,050,000.