

Curriculum Vitae

Eddy Ardonne

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Personal details

Name: Eddy Ardonne
Address: Nordita
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Sweden
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Date of Birth: January 7, 1975
Nationality: Dutch

Education

April 1998 - April 2002
Graduate Student at the University of Amsterdam, Institute for Theoretical Physics.
Supervisor: prof. K. Schoutens.
Ph-D thesis: *A conformal field theory description of fractional quantum Hall states*.
Graduation: April 2002 (cum laude).
My thesis can be downloaded from my website <http://www.nordita.org/~ardonne/>

August 1993 - April 1998
Master's degree in (theoretical) physics, Leiden University.
Title Master's Thesis: *The role of Chern-Simons theory in the quantum Hall effect*.
Supervisors: prof. P. van Baal and prof. J. Zaanen.
Graduation: March 1998 (cum laude).

Work experience

December 2007 - present
Assistant professor at Nordita, Stockholm, Sweden.

August 2005 - November 2007
Post-doctoral researcher at the 'Center for the Physics of Information' at the California Institute of Technology, Pasadena, CA, USA.

January 2006 - March 2007
Post-doctoral researcher at 'Microsoft Station Q', Microsoft Research, Santa Barbara, CA, USA (on leave from Caltech).

August 2002 - August 2005
Post-doctoral research associate in the Department of Physics at the University of Illinois at Urbana-Champaign, IL, USA.

Teaching experience

At the university of Amsterdam (as a Ph-D student):

- Teaching assistant for a course on statistical physics (three semesters).
- Teaching assistant for a student seminar on superconductivity.

Currently, I am teaching a graduate course on conformal field theory. The course is attended by students from Stockholm university, KTH and uppsala University.

Supervision

Currently, I am supervising a ‘Nordita fellow’ (post-doc). I have applied for funding (in the context of a european ‘Initial training network’) for a Ph-D student.

Publications

See enclosed form.

Selected invited talks

- *Topological quantum computations with anyons*, Physics Colloquium, Göteborg University, Sweden, May 2008.
- *Topological phases and quantum computation*, Meeting of the ‘Foundation for Fundamental Research on Matter’ (the dutch equivalent of the APS March-meeting), January 2007.
- *Affine Lie Algebra’s: characters of principal subspaces and Kirillov-Reshetikhin modules*, Lie theory seminar, Department of Mathematics, University of California, Riverside. May 2006.
- *Topological order and conformal quantum critical points*, Yale Condensed Matter Physics Seminars, Yale University. January 2005.

For a list of all my talks, see the enclosed form.

Organizational skills

- I co-organized (with prof. H. Hansson) a topical conference on the ‘Conformal field theory approach to quantum Hall physics – non-abelian statistics and quantum computing’, held at Nordita from August 13 till August 16, 2008.
- I am co-organising a workshop on ‘Quantum Hall physics – Novel systems and applications’, to be held at Nordita, from August 17 till September 2009.

Awards

My Ph-D thesis has been awarded the ‘Andreas Bonn medal’ of the ‘Genootschap ter Bevordering van Natuur-, Genees-, en Heelkunde’.