

CURRICULUM VITAE — JONATHAN BRAITHWAITE

Canadian Institute for Theoretical Astrophysics
60 St. George St.
Toronto ON M5S 3H8, Canada

Tel: +1 416 978 5946
Fax: +1 416 978 3921
jon@cita.utoronto.ca
www.cita.utoronto.ca/~jon

EDUCATION & EMPLOYMENT

- | | |
|---------------------------|---|
| 1 Sept 2006 – present | Postdoctoral researcher at the <i>Canadian Institute for Theoretical Astrophysics</i> |
| 1 Oct 2005 – 31 Aug 2006 | Visiting Scholar at the <i>Max-Planck-Institut für Astrophysik</i> |
| 10 Apr 2004 – 31 Sep 2004 | Scientific employee at the <i>Max-Planck-Institut für Astrophysik</i> |
| 10 April 2004 | Ph.D. in Astrophysics at the <i>University of Amsterdam</i>
Thesis title: “Stable and unstable magnetic fields in stars”
Promotor: Prof. Hendrik Spruit |
| 1 Nov 2000 – 10 Apr 2004 | Research for Ph.D. at the <i>Max-Planck-Institut für Astrophysik</i>
Supervisor: Prof. Hendrik Spruit |
| 5 Oct 1996 – 28 Jun 2000 | Master of Physics (MPhys) at the <i>University of Oxford</i>
Awarded “first class” honours degree
<i>Ranked 2nd out of 151 students in final examinations</i> |

RECENT CONFERENCES, MEETINGS & TALKS

- IAS symposium (CP stars session), Rio de Janeiro, 3-15 August 2009, “The origin and evolution of stellar magnetic fields” [invited review]
- CASCA meeting (Canadian astronomy), Toronto, 26-29 May 2009, “Blowing bubbles in the ICM: reconnection of internal magnetic field” [poster presentation]
- MiMeS collaboration workshop (magnetic fields in massive stars), Paris, 11-15 May 2009 [oral presentation]
- Colloquium at Berkeley, 2 March 2009, “Formation and evolution of magnetic fields in neutron stars”
- Colloquia at Leiden, Amsterdam and Utrecht, 5, 9 and 14 January 2009, “Evolution of magnetic fields in neutron stars”
- Colloquium at Purdue University, Lafayette, Indiana, 4 November 2008, “Magnetic fields of neutron stars”
- Colloquium at the High-Altitude Observatory (HAO), Boulder, Colorado, 8 Oct 2008, “Magnetic properties of non-convective stars”
- Colloquium at NORDITA, Stockholm, 1 August 2008, “Formation and evolution of magnetic fields in non-convective stars”
- Workshop on the astrophysics of neutron stars, Istanbul, 30 June - 4 July, “Formation

and nature of magnetic fields in neutron stars” [oral presentation]

- 17th Kingston Meeting on compact stars, Banff, Alberta, 25-28 May 2008, “Formation and evolution of magnetic fields in compact stars” [oral presentation]
- Meeting of Astronomers in Canada (CASCA), 20-23 May 2008, “Differential rotation in stars: transport of angular momentum via magnetic fields” [poster presentation]
- Colloquium at the University of Western Ontario, 17 March 2008, “What happens to the magnetic field in a star when convection stops?”
- Colloquium at the Royal Military College (RMC), Kingston, Ontario, 13 February 2008, “Magnetohydrodynamic instability in stars”
- Colloquium at Astrophysikalisches Institut Potsdam, 15 January 2008, “Magnetic fields of Ap stars”
- G2000 seminar at the University of Toronto, 24 October 2007, “What happens in a star when convection stops?”
- Colloquium at McGill University, Montreal, 16 October 2007, “Stable magnetic fields in stars”
- Workshop on MHD laboratory experiments, Catania, Sicily, 1-3 October 2007, “The Tayler instability in stably-stratified stars and a differential-rotation-driven dynamo” [oral presentation]
- Workshop on Ap/CP stars, Vienna, 10-14 September 2007, “Stability of magnetic fields in stars” [oral presentation]

TEACHING, ADMINISTRATION & OUTREACH ---

- Introductory MHD course for graduate students, Toronto, first half of 2009
- Organiser of fluid dynamics discussion group at CITA, Oct 2006 - present
- Supervised undergraduate student during summer 2007 (Brandon Helfield); project linked leftover dynamo fields to end-states in upper-main-sequence stars
- Public astronomy evenings, Toronto, 2007-present
- Supervised undergraduate lab sessions at the TU-München, 2003-2004
- Open days at the MPA Garching; volunteer duties involved showing members of the public around the buildings as well as giving short talks, 2002-2004
- Secretary of Oxford Physics Society, 1997-2000

MISCELLANEOUS ---

- Oct. 2004 - Sept. 2005 Extensive travel in (amongst others) Eastern Europe and Africa
- Awarded college scholarship three years in succession, 1997 – 2000
- Awarded prize for best exam results in the school, 1995
- Computer skills: Fortran 90, IDL, C++, parallel programming, VAPOR, OpenDX

- Practical astronomy skills: I was an amateur before I became a professional!
- Languages: English (native), German (fluent), Norwegian (basic), French (basic)