Thomas Berlok — Curriculum Vitae

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EMPLOYMENT

Leibniz-Institut für Astrophysik Potsdam (AIP) — Dec 2017 – Nov 2023
Postdoc in the Cosmology and High-energy Astrophysics section.

EDUCATION

Niels Bohr International Academy — Nov 2014 – Oct 2017
PhD fellow in Theoretical Astrophysics.
PhD thesis can be downloaded at www.tberlok.dk/Berlok_thesis.pdf.

University of California, Berkeley — Aug 2016 – Oct 2016
Visiting PhD fellow at the Theoretical Astrophysics Center

University of Copenhagen — Feb 2012 – Sep 2014
Master of Science in Physics
GPA: 11.3/12. Thesis grade: 12/12

University of Utrecht — Sep 2012 – Feb 2013
Erasmus exchange student

The European Organization for Nuclear Research, CERN — Jun 2012 – Aug 2012
CERN summer student

University of Copenhagen — Sep 2008 – Jan 2012
Bachelor of Science in Physics
GPA: 10.9/12. Thesis grade: 12/12

GRANTS

Awarded 10.7 mio core-hours on SuperMUC-NG at LRZ	2020
Oticon 10.000 DKK	2016
Lørup Scholar Stipend 50.000 DKK	2014
Julie Damms Studiefond 10.000 DKK	2012
Oticon 6.000 DKK	2012
Erasmus 9.000 DKK	2012

TEACHING AND SUPERVISION

Leibniz-Institut für Astrophysik Potsdam (AIP) — April 2019 – September 2020
Advisor for the MSc project of Oliver Franke

Niels Bohr Institute, University of Copenhagen
Teaching assistant

Mathematics for physicists II	Spring 2010 & 2011
Electromagnetism and electronics	Spring 2013
Electromagnetism II	Fall 2013
Thermodynamics	Spring 2013
Theoretical Astrophysics	Fall 2015

Geophysical Fluid Dynamics — Fall 2015

Utrecht University, the Netherlands — Sep 2012 – Dec 2012
Co-supervised a project on Bose-Einstein condensates

Frederiksberg Gymnasium, Copenhagen — Aug 2011 – Dec 2011
Taught physics and natural sciences as a part time teacher at a Danish gymnasium

PROFESSIONAL AND ACADEMIC SERVICE

Referee for the Astrophysical Journal (ApJ) and the Monthly Notices of the Royal Astronomical Society (MNRAS).

Local organiser of the *3rd ICM Theory and Computation Workshop* in 2014, Niels Bohr Institute, DK

COMPUTER SKILLS

Programming languages: Python, C, Fortran, Matlab and Mathematica.

Astrophysical codes: Arepo, Athena, Athena++, Dedalus, Snoopy and the PhotonPlasma code.

Tools: Git, continuous integration (CI) and code coverage.

TALKS

Job interview talk, **Max Planck Institute for Astrophysics**	Jan 17, 2020
Santa Barbara Astro Lunch, **UCSB**	Sep 25, 2019
Multiscale Phenomena In Plasma Astrophysics, **KITP**	Sep 9, 2019
Physics Of The Intra-Cluster Medium: Theory And Computation, Budapest	Mar 5, 2019
ICM Physics and Modeling, **MPA/ESO**, Garching	Oct 10th, 2018
AIP Colloquium, AIP, Potsdam	Jul 26th, 2018
PhD Prize talk, Annual Danish National Astronomy Meeting, Denmark	May 3rd, 2018
Astrophysics Seminars, **DAMTP**, University of Cambridge	Nov 14th, 2016
GAFD Seminars, University of California, **Santa Cruz**	Sep 27th, 2016
Theoretical Astrophysics Center, University of California, **Berkeley**	Aug 17th, 2016
Astrophysics Seminars, University of California, **Santa Barbara**	Jun 3rd, 2015
Workshop on turbulence, **Les Houches**	Mar 25th, 2015
3rd ICM Theory and Computation Workshop, **NBI**, Copenhagen	Aug 2012, 2014

SCHOOLS

DIAS Summer School in High-Energy Astrophysics, **DIAS**	19-29 June 2018
Prospects in Theoretical Physics 2016, **Institute for Advanced Study**	18-29 Jul 2016
6th Les Houches School in numerical physics, **Les Houches**	16-27 May 2016
NBIA Summer School on Astrophysical Plasmas, **NBI**	28 Aug-1 Sep 2015
From Protoplanetary Disks to Planet Formation, **Saas-Fee**	15-20 Mar 2015

From light to dark - the growing phase of supermassive black holes, **DARK**	19-23 May 2014
NBIA Summer School on Computational Astrophysics, **NBI**	19-23 Aug 2013