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# CURRICULUM VITEA:

## Jennifer Schober

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### PERSONAL INFORMATION

Birthday: 4<sup>th</sup> October 1986  
Birthplace: Miltenberg, Bavaria, Germany  
Citizenship: German  
Languages: German (native), English (fluent), Spanish (very basic)

### EDUCATION

**PHD:** PHD-Thesis

Supervisor: Prof. Dr. Ralf Klessen  
Institution: Institut für Theoretische Astrophysik  
Ruprechts-Karls Universität, Heidelberg, Germany  
Dates: Jan 2012 - today

**Graduate Studies:**

Diploma (Master) Thesis  
Supervisor: Prof. Dr. Ralf Klessen  
Institution: Institut für Theoretische Astrophysik  
Ruprechts-Karls Universität, Heidelberg, Germany  
Dates: Dec 2010 - Nov 2011

“Hauptstudium Physik”

Degree: “Physik Diplom”

Grade: 1.0 (with award)

Institution: Ruprechts-Karls Universität, Heidelberg, Germany

Dates: Apr 2008 - Nov 2011

**Undergraduate Studies:**

“Grundstudium Physik”

Degree: “Physik Vordiplom” (4<sup>th</sup> Apr 2008)

Institution: Ruprechts-Karls Universität, Heidelberg, Germany

Dates: Sep 2006 - Apr 2008

**School Education:**

“Gymnasium”

Degree: “Allgemeine Hochschulreife” (30<sup>th</sup> June 2006)

School: Karl-Ernst Gymnasium, Amorbach, Germany

Dates: Sep 1997 - June 2006

## RESEARCH INTERESTS

- Magnetohydrodynamical Dynamos
- Plasma Physics
- Early Universe
- Star Formation

## PUBLICATIONS

- Schleicher, **Schober**, Federrath, Bovino, Schmidt 2013: “*The small-scale dynamo: breaking universality at high Mach numbers*”,
- Bovino, Schleicher, **Schober** 2013: “*Turbulent magnetic field amplification from the smallest to the largest magnetic Prandtl numbers*”
- **Schober**, Schleicher, Bovino, Klessen 2012: “*The Small-Scale Dynamo at Low Magnetic Prandtl Numbers*”, Phys. Rev. E, Vol. 86, Issue 6
- **Schober**, Schleicher, Federrath, Glover, Klessen, Banerjee 2011: “*The Small-Scale Dynamo and Non-Ideal MHD in Primordial Star Formation*”, ApJ, Vol. 754, Issue 2
- **Schober**, Schleicher, Federrath, Klessen, Banerjee 2011: “*Magnetic Field Amplification by Small-Scale Dynamo Action: Dependence on Turbulence Models, Reynolds and Prandtl Numbers*”, Phys. Rev. E
- Schleicher, **Schober**, Federrath, Miniati, Banerjee, Klessen 2011: *Magnetic fields in the first galaxies: Dynamo amplification and limits from reionization*, Proceedings for the “Magnetic Fields in the Universe III: From Laboratory and Stars to Primordial Structures” (Zakopane, Poland)
- Federrath, Chabrier, **Schober**, Banerjee, Klessen, Schleicher 2011 “*The Mach Number Dependence of the Turbulent Dynamo: Solenoidal versus Compressive Flows*”, Phys. Rev. Letters

## TALKS AND POSTERS

- 22<sup>th</sup> May 2013: “*Magnetic Fields in the Primordial ISM*” (Talk)  
“Magnetic Fields in Protostellar Disks” (Workshop)  
(Heidelberg, Germany)
- 26<sup>th</sup> Mar 2013: “*The Small-Scale Dynamo & the Formation the First Stars*” (Talk)  
Astrophysical Colloquium  
(Florence, Italy)
- 25<sup>th</sup> Feb - 1<sup>st</sup> Mar 2013: “*Small-Scale Dynamo for Different Types of Turbulence*” (Poster)  
“The Future of Plasma-Astrophysics” (winter school)  
(Les Houches, France)
- 8<sup>th</sup> Feb 2013: “*Magnetic Fields in Young Galaxies*” (invited Talk)  
“Magnetic Fields in the Universe IV”  
(Playa del Carmen, Mexico)
- 11<sup>th</sup> Oct 2012: “*Magnetic Fields and Non-Ideal MHD in Primordial Star Formation*” (Talk)  
“The Low-Metallicity ISM: Chemistry, Turbulence and Magnetic Fields”  
(Göttingen, Germany)
- 26<sup>th</sup> Sep 2012: “*Magnetic Fields in the Primordial ISM*” (Talk)  
Annual Meeting of the Astronomische Gesellschaft, Splinter Meeting “ISM”  
(Hamburg, Germany)
- 30<sup>th</sup> Aug 2012: “*The Small-Scale Dynamo in Primordial Star Formation*” (invited Talk)  
General Assembly of the IAU,  
IAUS 294 “Solar and Astrophysical Dynamos and Magnetic Activity”  
(Beijing, China)
- 27<sup>th</sup>-29<sup>th</sup> Aug 2012: “*The Small-Scale Dynamo for Different Types of Turbulence*” (Poster)  
General Assembly of the IAU,  
SpS 4 “Interstellar and Intergalactic Magnetic Fields”  
(Beijing, China)

- 20<sup>th</sup>-24<sup>th</sup> Feb 2012: *“Implications of Lithium on the Origin of Magnetic Fields”* (Poster)  
“Lithium in the Cosmos”  
(Paris, France)
- 16<sup>th</sup> Feb 2012: *“Small-Scale Dynamo: Analytics vs. Numerics”* (Talk)  
FLASH-Workshop  
(Hamburg, Germany)
- 6<sup>th</sup> Apr 2011: *“The Small-Scale Dynamo”* (Talk)  
Annual Meeting of the Astronomische Gesellschaft, Splinter Meeting ”High-Reshift  
Star Formation”  
(Heidelberg, Germany)
- 9<sup>th</sup> Aug 2011: *“The Small-Scale Dynamo”* (Talk)  
Astrophysikalisches Kolloquium  
(Göttingen, Germany)
- 22<sup>th</sup> Sep 2011: *“Magnetic Fields in Primordial Star Formation”* (Talk)  
”Studierendentage” 2011  
(Heidelberg, Germany)

## TEACHING

- Tutor in Theoretical Physics (Analytical Mechanics and Thermodynamics)  
Institution: Ruprechts-Karls Universität, Heidelberg, Germany  
Dates: Apr 2012 - July 2012
- Tutor in introductory course for students of nature science (“Physics B”)  
Institution: Ruprechts-Karls Universität, Heidelberg, Germany  
Dates: Apr 2010 - July 2010
- Tutor in introductory course for students of nature science (“Physics A”)  
Institution: Ruprechts-Karls Universität, Heidelberg, Germany  
Dates: Sep 2009 - Dec 2009

## COLLABORATORS

- Prof. Dr. Robi Banerjee (Universität Hamburg)
- Dr. Stefano Bovino (Universität Göttingen)
- Dr. Christoph Federrath (University of Melbourne)
- Dr. Simon Glover (Universität Heidelberg)
- Prof. Dr. Dominik Schleicher (Universität Göttingen)

## OUTSIDE INTERESTS

Reading, Traveling, Swimming, Cinema