Curriculum Vitae

Dr. Christoph Federrath
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Personal Information

German, born 14th Feb 1981 in Sonneberg

Qualifications & Education

Doctoral Studies	Ph.D. on turbulence and star formation [04/2007 – 04/2010] Supervisor: Prof. Dr. Ralf S. Klessen Degree: **Dr. rer. nat. (Ph.D.) [7th Jun 2010]** (Heidelberg)
Graduate Studies	Physics [10/2001 – 03/2007] Diplom (Master) thesis [02/2006 – 02/2007] Supervisor: Prof. Dr. Jens C. Niemeyer Degree: **Dipl.-Phys. (M.Sc.) [8th Feb 2007]** (Würzburg)

Employment

- **Australian Postdoctoral Fellowship**, Monash University, Melbourne [since 10/2011]
- Postdoc position at the Ecole Normale Supérieure de Lyon [10/2010 – 10/2011]
- Transitional postdoc position at ZAH/ITA Heidelberg [04/2010 – 10/2010]

Publications

- **46 peer-reviewed journal articles**, 1 review article, 13 peer-reviewed conference papers
- **H-index is 25** (top 1% in the 0–5 year PhD category according to Pimbblet 2011)
- Top 10 publications (5 of which are lead-author publications) have >50 citations
- **Top 3 papers** (all lead-author) have **179, 140 and 94 citations** (total: >1700 citations)
- SAO/NASA ADS **paper of the year 2013** (Federrath 2013, MNRAS 436, 1245)

Selected Recent Talks

- **Review Talk** at Protostars & Planets VI (world's largest meeting on star and planet formation with 850 participants), 15 July 2013, Heidelberg
- **Invited Review Talk** at Ringberg Star Formation Workshop, 26 June 2013, Tegernsee
- **Invited Highlight Talk** "The star formation rate of turbulent magnetized clouds", Low-Metallicity ISM workshop, 11th Oct 2012, Göttingen
- **Invited Highlight Talk** "The link between interstellar turbulence and star formation", ASA General Assembly, 5th Jul 2012, Sydney

Research Interests

- The physics and chemistry of star-forming gas clouds
- Synthetic radio observations
- Star formation in the present-day and early Universe
- Fluid dynamics, turbulence, magnetic fields
- Numerical methods and computational techniques

PLEASE CONTACT christoph.federrath@monash.edu for a detailed CV including a complete list of publications, grants, awards, collaborations, and research projects.