

# Dmitry Semenov

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## Affiliation:

Staff member of the Max-Planck-Institut für Astronomie, Königstuhl 17, D-69117 Heidelberg, Germany (since 2011; non-permanent contract)

Guest scientist at the Department Chemie, Ludwig-Maximilian-Universität, Butenandtstr. 5-18, D-81377 München, Germany (since 2017);

## Education

**2005-now:** Post-doc, Max-Planck-Institut für Astronomie, Heidelberg

**2000-2005:** PhD degree in Astronomy and Physics, Astrophysikalisches Institut, Friedrich-Schiller-Universität, Jena (advisor: Prof. Dr. Th. Henning).

**1995-2000:** Master degree in Astronomy & Mathematics, St. Petersburg State University, Russia (advisor: Prof. Dr. N. Voshchinnikov),

## Teaching

- **2012-now:** Lectures on „Molecular Astrophysics" for PhD students, Heidelberg Uni. (2h/week x 12 weeks)
- **2014-2015:** Seminar for IMPRS students, Heidelberg Uni. (2h/week x 12 weeks)
- **2014-2015:** Bachelor seminar about minor bodies of the solar system, Heidelberg Uni. (2h/week x 12 weeks)
- **2013:** Lectures on chemistry in the Universe, 6th HGSFP Winter School, Obergurgl, Austria

## Supervision of students

- **2021-2024:** K. Paschek, PhD study, IMPRS Heidelberg
- **2019-2023:** R. Franceschi, PhD study, IMPRS Heidelberg
- **2020-2021:** K. Paschek, MSc study, University of Heidelberg
- **2018-2022:** G. Smirnov-Pinchukov, PhD study, IMPRS Heidelberg
- **2017-2018:** M. Simončič, Master Degree study, Ljubljana Uni., Slovenija
- **2017-2018:** C. Gieser, Master Degree study, Heidelberg Uni.
- **2013-2017:** R. Teague, PhD study, Heidelberg Uni.
- **2017-2017:** Ch. Merscher, Bachelor study, Kaiserslautern Hochschule
- **2010-2013:** T. Albertsson, PhD study, Heidelberg Uni.
- **2006-2009:** A. Vasyunin, PhD study, Heidelberg Uni.

## Awards

- **2018-2022:** DFG SPP 1833/II „Building a Habitable Earth", 3.5-year award x 315,000 euro
- **2018:** Cozzarelli prize from PNAS for the best article of 2017
- **2016-2018:** Private grant from the Heidelberg Institute of Theoretical Studies (160,000 euro)
- **2010-2013:** FP7-PEOPLE-ITN\_2008 „LASSIE", EC Grant 238258 (for a PhD student) (70,000 euro)
- **2010-2016:** DFG SPP 1385 „The first 10 million years of the Solar nebula", 3 awards every 2 years. Each award was ~160,000 euro

## Scientific Interests

- Chemical evolution of the solar nebula, protoplanetary disks, and star-forming regions
- Isotopic fractionation and grain surface processes
- Observations at (sub-)millimeter wavelengths
- Origin of Life