



Dr. Denis Yurin

Personal Information

Citizenship	Kazakhstan
Date of birth	21 th September 1982
Place of birth	Usharal, Kazakhstan
Marital status	married
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Education

- 2011 - 2014 **PhD in Astronomy**,
Heidelberg University, Heidelberg, Germany.
Thesis title: *Construction and stability of disk galaxies, and the radial migration of their stars*.
Supervisors: Prof. Dr. Volker Springel
Grade: **cum laude**.
- 2006 - 2009 **Aspirantura's courses**,
Fessenkov Astrophysics Institute, Almaty, Kazakhstan.
Qualifying examinations: passed.
- 2004 - 2006 **Master degree in Physics**,
Almaty State University, Almaty, Kazakhstan.
Thesis title: *"Numerical study of nonlinear equations of state of cosmological quintessence"*.
Thesis advisor: Prof. Dr. Leonid M. Chechin.
Grade: 4/4.
- 2000 - 2004 **Bachelor degree in Physics & Computer Science**,
Almaty State University, Almaty, Kazakhstan.
Thesis title: *"Computer simulation of self-formation of complex systems"*.
Thesis advisor: Prof. Dr. Leonid M. Chechin.
Grade: 5/5.

Employment

- 04/2015 - present **Post-doc**,
at Fesenkov Astrophysical Institute, Almaty, Kazakhstan.

- 04/2011 - **PhD Student**,
present at Centre for Astronomy of Heidelberg University (SFB 881 Project A6)
delegated to Theoretical Astrophysics group at Heidelberg Institut for Theoretical Physics,
Heidelberg, Germany.
- 05/2010 - **Guest Research fellow**,
11/2010 at Astronomisches Rechen-Institut, Heidelberg, Germany.
(in the framework of joint Germany-Kazakhstan STARDISK Project)
- 03/2009 - **Research fellow**,
05/2010 at Fesenkov Astrophysics Institute, Almaty, Kazakhstan.
- 06/2008 - **Guest Research fellow**,
12/2008 at Astronomisches Rechen-Institut, Heidelberg, Germany.
(in the framework of joint Germany-Kazakhstan STARDISK Project)

Spoken Languages

- russian **native speaker**
- english **written: good, spoken: good.**
- german **written: basic, spoken: basic**

Technical Expertise

- OS Linux, Windows 7, OS X
- Programming C/C++ (excellent), Pascal, Fortran 77/90
- Markup LaTeX, HTML
- Script Python, ActionScript
- Parallel Pthreads (excellent), SSE/AVX (excellent), MPI, CUDA (basic knowledge).
- Codes Gadget2/3, AREPO, nbody6++, phi-GRAPE, GALIC (developer)
- Misc Gnuplot, OpenGL, QT

Participation at Conferences, Workshops & Meetings

- Aug 2013 **Modest-13a**, Almaty, Kazakhstan.
Contributed talk: *"An Iterative Method for the Construction of Equilibrium N-Body Models"*
- Jun 2013 **Meeting of the VIRGO Consortium**, Garching bei München, Germany.
Contributed talk: *"An Iterative Method for the Construction of Equilibrium N-Body Models"*
- May 2012 **Disk Galaxy Formation in a Cosmological Context**, Heidelberg, Germany.
- May 2011 **Meeting of the VIRGO Consortium**, Garching bei München, Germany.
- Aug 2010 **Meeting of the VIRGO Consortium**, Heidelberg, Germany.
- Jul 2010 **Physics and Astrophysics of Neutron Stars and Black Holes Workshop**, Jacobs University, Bremen, Germany.
Presentation of the poster: *"Enhanced Accretion Rates of Stars on Supermassive Black Holes by Star-Disk Interactions in Galactic Nuclei"*.
- Sep 2008 **Joint European and National Astronomy Meeting (JENAM)**, Vienna University, Austria.
Presentation of the poster: *"Enhanced Accretion Rates of Stars on Supermassive Black Holes by Star-Disk Interactions in Galactic Nuclei"*.

Seminars & Colloquiums

- Nov 17, 2014 **An iterative method for the construction of N-body galaxy models in collisionless equilibrium**, *ITA "blackboard" Colloquium*, Heidelberg, Germany.
- Nov 5, 2014 **An iterative method for the construction of N-body galaxy models in collisionless equilibrium**, *SFB Seminar Series*, Heidelberg, Germany.

Teaching Experience

Sep 2013 – **Teaching assistant**, *Department of Physics and Astronomy*,
Mar 2014 *Heidelberg University*, Heidelberg, Germany.

Course: *Fundamentals of Simulation Methods*. Tutoring exercise classes and checking assignments.
Held by: Prof. Volker Springel.

Description: This course is part of the new specialization in Computational Physics within the physics masters degree at Heidelberg University. The objectives of this course are to endow students with the capacity to identify and classify common numerical problems, to reach an active understanding of applicable numerical methods and algorithms, to solve basic physical problems with adequate numerical techniques, and to recognize the range of validity of numerical solutions.