

Dinesh Kandel

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Education

PhD Physics, Stanford University, started 2017

Advisor: Roger Romani

M.Sc. Physics, University of Alberta, 2015-2017.

Advisor: Dmitri Pogosyan

Thesis topic: Statistical Methods To Study Turbulence In The Magnetized Interstellar Medium

B.Sc. Physics, Hong Kong University of Science and Technology, 2012-2015.

Research Interest

High energy astrophysics, turbulence in the interstellar medium (ISM), star formation, galactic dynamics.

Awards

Graduate Teaching Award, University of Alberta, Winter 2016

Graduate Student Travel Award, University of Alberta, Winter 2016

Dean's Excellence Award, University of Alberta, Winter 2016

HKUST Outstanding Student Award, 2015

Academic Achievement Award 2014/2015

University Scholarship, 2013 - 2015

School of Science Scholarship 2013 - 2015

Dean's List 2012 - 2015

HKSAR Government Fund: Talent Development Scholarship 2012/2013

Joseph Lau Leung Charitable Trust Scholarship 2012 - 2013

Honourable Mention: 13th Asian Physics Olympiad, India 2012

Bronze Medal: 42nd International Physics Olympiad, Thailand 2011

National Champion: Nepal Physics Olympiad 2010/2011

Teaching Experience

Teaching Assistant. Particles and Waves (PHYS 124, Laboratory Course) Fall 2016

Teaching Assistant. Wave Motion, Optics and Sound (PHYS 130, Laboratory Course)
Fall 2015, Engineering Physics (PHYS 131, Laboratory Course) Winter 2016, University of Alberta

Teacher High School Mathematics, December 2010- April 2011, Small Heaven School

Undergraduate Experiences

Undergraduate Research Opportunities Program

HKUST, Supervisor: Prof. Kwok Yip Szeto. Area of work: Quantum Computation

Tokyo Tech International Research Opportunity Program (June- August 2014)

Tokyo Institute of Technology, Supervisor: Prof. Masahide Yamaguchi. Area of study: Cosmology

MIT- HKUST International Research Opportunity Program (June - August 2013)

MIT, Supervisor: Alan Guth. Area of work: Cosmology

Computer Skills

Proficient in Python, C++, LaTeX and Mathematica.

Publications

Papers

1. Kandel D, Lazarian A and Pogosyan D. "Statistics of the galactic foreground: dust and synchrotron.", 2017, arXiv:1711.03161, (submitted to *MNRAS*)
2. Kandel D, Lazarian A and Pogosyan D. "Can the observed E/B ratio for dust galactic foreground be explained by sub-Alfvenic turbulence?", 2017, *MNRAS Letters*
3. Kandel D, Lazarian A and Pogosyan D. "Effects of dust absorption on spectroscopic studies of turbulence.", 2017, *MNRAS*
4. Kandel D, Lazarian A and Pogosyan D. "Study of velocity centroids based on the theory of fluctuations in position-position-velocity space.", 2016, *MNRAS*, 464, 3617
5. Kandel D, Lazarian A and Pogosyan D. "Extending velocity channel analysis for studying turbulence anisotropies.", 2016, *MNRAS*, 461, 1227

Talks and Presentation

1. "A statistical technique to study turbulence in magnetised astrophysical environments", The Physics of the ISM 6 years of ISM-SPP 1573: what have we learned?, Cologne, Germany, February, 2017
2. "Statistical techniques for turbulence studies", University of Alberta, September, 2016