

SWARNIM SHASHANK

PHD STUDENT · THEORETICAL PHYSICS

Center for Field Theory and Particle Physics and Department of Physics, Fudan University, Jiangwan Campus, 2005 Songhu Road, Shanghai 200438, China

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Languages English (Fluent), Hindi (Native), Urdu (Intermediate), Chinese (Beginner), Japanese (Beginner)

Research Relativistic Astrophysics, X-ray Astrophysics, Gravitational Wave Physics, GRMHD, Numerical Relativity

Education

Fudan University

PHD THEORETICAL PHYSICS

Advisor: Prof. Cosimo Bambi

Shanghai, China

Sep 2020 - present

UM - DAE - Centre for Excellence in Basic Sciences

INTEGRATED MSC PHYSICS

Thesis: Simulation of Magnetised Binary Neutron Star Mergers

Advisor: Prof. Luca Baiotti, Osaka University, Japan

Mumbai, India

Aug 2014 - Jul 2019

Positions

2020 **Visiting Student**, IUCAA, Pune, India

2018 **Special Research Student**, Osaka University, Osaka, Japan

2014-2019 **DST Inspire Fellow**, UM-DAE-CEBS, Mumbai, India

Publications

Swarnim Shashank, Cosimo Bambi. 2021. Constraining the Konoplya-Rezzolla-Zhidenko deformation parameters III: limits from stellar-mass black holes using gravitational-wave observations, arXiv:2112.05388.

Swarnim Shashank, Fatemeh Hossein Nouri, Anshu Gupta. 2021. f -mode oscillations of compact stars in dynamical spacetimes, arXiv:2108.04643.

Awards, Fellowships & Grants

2020 **CSC scholarship**, China Scholarship Council

2016 **Summer Research fellowship**, Indian Academy of Sciences

2014 **Inspire fellowship**, Department of Science and Technology, Government of India

2017 **State Topper**, National Graduate Physics Examination, IAPT

2016 **State Topper**, National Graduate Physics Examination, IAPT

2015 **State Topper**, National Graduate Physics Examination, IAPT

Skills

Coding C, C++, Fortran, Python, Shell (Bash, Zsh, Csh), Mathematica

Codes EinsteinToolkit, HARMPI, BHAC, Athena++, LORENE, MESA, XSPEC

Visualisation VisIt, GNUplot, Matplotlib/Seaborn, PGplot, Origin

HPC Experience on working with High Performance Clusters

OS Linux, Unix, MacOS, Android, Windows

Others Image editing (GIMP), Sound editing (Audacity), Video editing (ffmpeg), GUI programming (FLTK), Linux packaging (Archlinux, Debian)

Electronics Arduino microcontroller, LabView