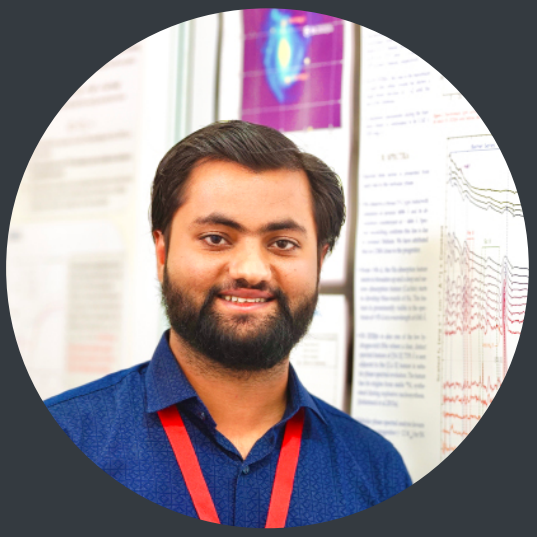

RISHABH SINGH TEJA

PhD Student
Indian Institute of Astrophysics
Bengaluru, Karnataka, India-560034

Namaste! Hello! Greetings!
I am a Ph.D. student working on the photometric and spectroscopic observations, analysis, and modeling of Core-Collapse Supernovae. I love to do Science as well as Data Science. Presently, I am trying to understand the demises of massive stars in our Universe.

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RESUME

EDUCATION

High School (10th) *2011 – 2012* **1st Division**
Hilton Convent Senior Secondary School, Amroha, UP-244221
Hindi, English, Maths, Science, and Social Studies

Intermediate (12th) *2012 – 2014* **1st Division**
Hilton Convent Senior Secondary School, Amroha, UP-244221
Maths, Physics, Chemistry, English, and Physical Education

Graduation (B.Sc. (H) Physics) *2014 – 2017* **1st Division**
Ramjas College, University of Delhi, Delhi-110009
Physics and related subjects + Mathematics and Chemistry (2 sem)

Post-Graduation (M.Sc. Physics) *2017 – 2019* **1st Division [Gold Medal]**
Department of Physics & Astrophysics, University of Delhi, Delhi-110009
[Affiliation: Hansraj College, University of Delhi]
Classical, Quantum, Stastitical, Nuclear (Lab+Theory), Electrodynamics, GR & Cosmology, and Astronomy

Ph. D. (Astronomy & Astrophysics) *2019 – ongoing*
Indian Institute of Astrophysics, Bengaluru, Karnataka-560034
[Affiliation: Pondicherry University]
Topic: Observational and theoretical studies of low-redshift core-collapse supernovae

PUBLICATIONS

- **SN 2020jfo: A Short-plateau Type II Supernova from a Low-mass Progenitor** *Rishabh Singh Teja et al 2022 ApJ 930 34 DOI:-* https://doi.org/10.3847/1538-4357/ac610b
- **Optical studies of a bright Type Iax supernova SN 2020rea** *Mridweeka Singh et al. 2022*...MNRAS 517 (4), 5617-5626
- **SN 2018gj: A Short-plateau Type II Supernova with Persistent Blue-shifted Hα Emission** *Rishabh Singh Teja et al. 2023* [Submitted to ApJ]
- **Observational properties of a bright type Iax SN 2018cni and a faint type Iax SN 2020kyg** *Mridweeka Singh et al. 2023* [Revision Submitted to ApJ]

PUBLICATIONS [Non-Refereed]

- **GRB 210204A: Optical Observations from HCT** *Rishabh Singh Teja et al. ,* ...GRB Coordinates Network 29414, 1

[Continued...]

Interests/Hobbies/Others

- Love playing both indoor and outdoor games such as Table Tennis, Badminton, Volleyball, Cricket, and Chess
- Love reading fiction books
- Ardent Cinema lover
- Tech enthusiast
- Worked on different committes at school and college level
- Presently involved in editorial & design roles for IIA's science e-Magazine 'DOOT'
- Part of institute's computer committe as student representative

Philosophy

I have always believed in working hard with honesty. I am always eager to learn new things, whether new tools, concepts, or even sports. I have always been a very keen listener and love to hear about different things from everyone. I believe in self-learning and followed it most of my life. I have experienced that, howsoever challenging things may seem, if we keep working hard, it eventually bears fruit and presents us with wonderful outcomes. I like to do everything with utmost dedication and passion.

Socities

- **Life member**, *Astronomical Society of India (ASI)* **[L2454]**

- **AT2022wgv is a galactic CV** *H Kumar et al.*, ... The Astronomer's Telegram 15644, 1

PRESENTATIONS (Talk/ Poster)

- Poster presented on **"Observational studies of a short plateau Type IIP supernova 2020jfo"** at ASI 2022 Meet, Roorkee, India (March 2022)
- Poster presented on **"Observations and modelling of two Type IIP supernovae in M61"** in *"IAU Symposium 361: Massive Stars Near and Far"*, Ballyconnell, Ireland (May 2022)
- Contributory talk given on **"Panchromatic observations and modeling of two Type II supernovae in M61: Similar origins yet different fates"** in *"Young Astronomers' Meet 2022"*, ARIES, Nainital, India (Nov 2022)
- E-poster preseted on **"Origins of a short plateau type II supernova SN 2020jfo: low mass RSG or binary?"** in SuperVirtual 2022, (Nov 2022)
- Talk on "**Understanding Type IIP progenitors with empashis on short plateau Type II Supernovae"** in Indo/Japan Supernova workshop at Hiroshima University, Japan (March 2023)

SKILLS

Tools / Softwares

MESA Star, STELLA, IRAF, PyRAF, Git, LINUX, SYNAPPS, TARDIS, vim

Programming Languages

Python , C and C++

Languages

Hindi (Mother Tongue), English, Punjabi(Speak)

Data Reduced & Used

Himalayan Chandra Telescope (HCT), India; Swift/UVOT; GROWTH India Telescope, Devasthal Optical Telescope, India

Others

MS-Office, matplotlib, scipy, jupyter-notebooks, Tkinter, HTML, CSS, Javascript, Adobe InDesign, LaTeX, Machine Learning Basics

OTHER ACHIEVEMENTS

- *Awarded certificate of merit in high school (CGPA 10.0)*
- *Under top 10 in the district in high school results*
- *Qualified written NDA/NA written Examination (2013)*
- *Qualified written CDS examination twice (2015, 2016)*
- *Qualified IIT-JAM (2017)*
- *Awarded Dr. K.S. Krishnan Gold Medal for highest marks in the University in M.Sc (2019)*
- *Qualified national level CSIR-NET (once) (2018)*
- *Qualified national level CSIR-JRF (twice) (2018, 2019)*
- *Qualified national level GATE exam (2019)*

RESUME