



# AKASH BISWAS

Junior Research Fellow (Jan 2021- Present),  
Department of Physics,  
Indian Institute of Technology (BHU), Varanasi

## CONTACT

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## ACHIEVEMENTS

- Qualified **GATE 2022** exam (All India Rank- 27)
- Qualified **CSIR-UGC NET** June 2021 exam (JRF All India Rank- 41)
- Qualified GATE 2020 exam (All India Rank- 1112)
- Qualified JAM 2018 exam (All India Rank-284)
- DST-INSPIRE SCHOLAR (2015-2020)
- Ranked among top 1% students in both 10th and 12th board exams.

## SKILLS

**Computer programming** : Python, Fortran, Matlab

**Typesetting**: Latex, MS word, Libre office

**Operating systems**: Linux, Windows

**Languages known** : English, Bengali, Hindi

## EDUCATION

### M.Sc. in Physics:

Department of Physics,  
Indian Institute of Technology (ISM) Dhanbad, (2018-2020)  
Graduated with 8.94 OGPA.

### B.Sc. in Physics:

Krishnath College, Berhampore, (2015-2018)  
University of Kalyani,  
Graduated with 78% marks.

## WORK EXPERIENCE

**ISRO/RESPOND project** : (Jul 2020 - present)

**Supervisor**: Dr. Bidya Binay Karak,  
Department of Physics,  
Indian Institute of Technology (BHU), Varanasi

**Summer Project** on the Sun-Earth connection (May-June 2019),

**Supervisor**: Dr. Ramesh Chandra,  
Department of Physics,  
Kumaun University, Nainital, India

## List of Publications

**1. Biswas, A.,** Karak, B. B., & Cameron, R.: Toroidal flux loss due to flux emergence explains why all solar cycles decay in the same way, submitted in Physical Review Letters (PRL).

**2. Kumar, P., Biswas, A., & Karak, B. B.:** Physical link of the polar field build-up with the Waldmeier effect broadens the scope of early solar cycle prediction: Cycle 25 is likely to be stronger than Cycle 24, Submitted in MNRAS Letters (<https://arxiv.org/abs/2203.11494>).

## Poster presentation

Presented a poster at the 40<sup>th</sup> Annual meeting of Astronomical Society of India in March 2022 on the topic of 'Toroidal flux loss due to flux emergence explains why all solar cycles decay in the same way'