ALEENA BABY

Doctoral researcher

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aleena-baby | aleenababy

STRENGTHS

Fortran | Python | SQL | HTML | C | Mathematica | Visual Basic | DBMS | AIPS | GILDAS

LEARNING

Git | data analysis

INTERESTS

Molecular clouds | Pulsars | AGN | Astrochemistry

Short stories | Traveling | Public speaking | Teaching

LANGUAGES

English: C1
German: A1
Malayalam: Native
Hindi: Advanced/B2
Tamil: Basic / A2

REFERENCES

PD. Dr. Volker Ossenkopf-Okada
ossk@ph1.uni-koeln.de
University of Cologne, Germany

PD. Dr. Markus Roellig
roellig@ph1.uni-koeln.de
University of Cologne, Germany

Hrisikesh Shetgaonkar
University of Würzberg

ABOUT MY RESEARCH

Current research is focused on the modeling of the systematic advection- diffusion flows and testing the time evolution of the KOSMA- Tau PDR model.

EXPERIENCE

Teaching assistant | Physics Institute I

April 2020 - June 2020 | University of Cologne, Germany

- Assisted PD. Dr. Volker Ossenkopf- Okada in the course "Physics of the ISM"
- Created and evaluated exercises for the course

Assistant Professor and Head, Department of Physics | Alphonsa Arts and Science College

June 2018 - August 2018 | Kerala, India

- Taught Electronics, Thermodynamics, Optics, and Astronomy for Bachelor students
- Handled Lab session for Bachelor students

Assistant Professor, Department of Physics | SNDP Yogam arts and Science College

February 2018 - May 2018 | Kerala, India

- Taught Python Programming language,Waves,and Oscillations for Bachelors and Advanced quantum mechanics for Masters students
- Handled Lab session for students

EDUCATION

Doctoral researcher | University of Cologne

June2019 – Dec 2022 | Cologne, Germany

Masters in Science, Physics | The Gandhigram Rural Institute

June 2015 – April 2017 | Tamil Nadu, India

Bachelors in Science, Physics | WMO Arts and Science College

June 2012 – April 2015 | University of Calicut, Kerala, India

CURRENT PROJECTS

Testing of Time-dependent PDR model using KOSMA-Tau PDR model

Diffusion- advection effects in Photo-dissociated regions using KOSMA-Tau PDR model