

# AJITH KUMAR K

ASSISTANT PROFESSOR & HOD, DEPARTMENT OF PHYSICS,  
ST PIUS X COLLEGE, RAJAPURAM



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KASARAGOD,  
KERALA, INDIA

DOB: 01-11-1984

GENDER : MALE

RELIGION : HINDU  
CATEGORY : OBC

NATIONALITY: INDIAN

FATHER'S NAME:  
P. GOPALA KRISHNAN

MOTHER'S NAME:  
K. THAMBAI

NAME OF SPOUSE:  
INDU SUKUMARAN

## Teaching Experience

Working as Assistant Professor at St Pius X College, Rajapuram since 2011 February.

## Research Experience

Worked as a Junior Research Fellow (JRF) at Equatorial Geophysical Research Laboratory (EGRL), Tirunelveli during 2009-2011. Currently working as a part time research scholar at Central University of Kerala (CUK) [Since 2013 February].

## Area of Interest

Theoretical and computational studies of the waves and instabilities in plasma, Electrodynamics of space and planetary atmosphere.

## Software / Programming skill

Basic knowledge in C, Python, Matlab etc. Familiar with the operating systems, Windows, Ubuntu and Mac OS. Knowledge in scientific softwares like Origin and Linux. Familiar with the tool of Particle In Cell simulation (PIC) technique used for computer simulation of plasma systems.

## Research Projects

Completed a UGC funded (Rs. 2 lakhs) minor research project for the study of electromagnetic waves in plasma. [period :2013-2015]

## Papers published in International journals

1. Streaming instability in negative ion plasma Physics of Plasmas 24, 092107 (2017); <https://doi.org/10.1063/1.4989427>.
2. Computational study of proton acceleration from the laser irradiated metal substrate. AIP Conference Proceedings 1953, 140011 (2018); <https://doi.org/10.1063/1.5033186>.
3. Theoretical and computational study of instability in streaming negative ion plasma under static magnetic field. Eur. Phys. J. D 74, 65 (2020). <https://doi.org/10.1140/epjd/e2020-100561-4>

### Papers presented in International / National conferences

1. International Conference on Condensed Matter and Applied Physics (ICC 2017) at Bikaner during November 24-25, 2017.
2. Two day National Seminar on Advances in Applied Physics and Applications at Sri Krishna College, Guruvayur during 26,27 Sept. 2018

### Achievements

Qualified UGC-NET (2008), GATE (2009), JEST (2009)

### Education

Name Cours	University / Board	Year of Study	Percentage of Marks
<b>M.Sc</b>	Kannur University.	2005-2007	67
<b>B.Sc</b>	Kannur University.	2002-2005	85
<b>XII</b>	Board of higher secondary examination , Kerala.	2000-2002	78
<b>SSLC</b>	Board of public examination, Kerala.	1999-2000	91

### Hobbies

Watching Movies.

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**Declaration:**

*I here by declare that all the information furnished above is true to the best of my knowledge and belief.*

22-02-2021

*Kasaragod*

*Ajith Kumar K*

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