

## Sri ABHISHEK DEY



**Designation:** Assistant Professor in Physics

### About Me:

#### ○ Experience / Expertise:

I have joined West Bengal Education Service at Maulana Azad College in March 2015.

Before that I joined Indian Association for the Cultivation of Science, Kolkata in 2012 as Junior Research Fellow under supervision of Prof Utpal Chattopadhyay. I got promoted to Senior Research Fellow in 2014. I have attended many conferences and seminars in different research institutes of India. My research works has been published in Journal of High Energy Physics.

#### ○ Specialisation & Area of Interests:

**High Energy Physics:** Nuclear and Particle Physics, Field Theory, Astrophysics and Cosmology

### Qualifications:

- B.Sc. (Honours) in Physics (2007-2010) Presidency College, University of Calcutta
- M.Sc. in Physics (2010-2012), University of Calcutta
- CSIR NET December 2018, AIR 14

### Current Teaching:

- I have taught various topics of theoretical physics viz. Mathematical methods, Electrodynamics, Classical Mechanics, Nuclear and Particle Physics.
- Lab Conducted : Classical Mechanics, Optics, and Electricity- Magnetism, Computer Programming

### Research Interests:

- Theoretical High Energy Physics – Physics Beyond Standard Model including Supersymmetry and Dark Matter

### Selected Publications: Papers

- Exploring MSSM for Charge and Color Breaking and Other Constraints in the Context of Higgs@125 GeV,  
Published in **JHEP 1411 (2014) 161**
- Probing Non-holomorphic MSSM via precision constraints, dark matter and LHC data  
Published in **JHEP 1610 (2016) 027**  
Utpal Chattopadhyay (IACS, Kolkata), Abhishek Dey (Maulana Azad College)
- Exploring viable vacua of the  $Z_3$ -symmetric NMSSM  
Published in **JHEP 1704 (2017) 024**  
Jyotiranjana Beuria, (Harish-Chandra Res. Inst.), Utpal Chattopadhyay (IACS, Kolkata), Aresh Krishna Datta (Bhabha Atomic Res. Ctr. & Harish-Chandra Res. Inst.), Abhishek Dey (Maulana Azad College)
- Exploring Charge and Color Breaking vacuum in Non-Holomorphic MSSM  
Published in **JHEP 1710 (2017) 154**  
Jyotiranjana Beuria (Harish-Chandra Res. Inst.), Abhishek Dey (Maulana Azad College)

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### Professional Memberships and Activities:

Member of Indian Association of Physics Teachers