



वार्षिक प्रतिवेदन  
एवं  
परीक्षित लेखा विवरण  
2020-2021

**ANNUAL REPORT**  
&  
**AUDITED STATEMENT OF ACCOUNTS**  
2020-2021



साहा इंस्टिट्यूट ऑफ न्युक्लियर फिजिक्स  
**SAHA INSTITUTE OF NUCLEAR PHYSICS**

सेक्टर-1, ब्लॉक-एएफ, विधाननगर, कोलकाता-700 064  
SECTOR-1, BLOCK-AF, BIDHANNAGAR, KOLKATA-700 064

## Outreach Programme

### Vigyan Pratibha Programme

Homi Bhabha Centre for Science Education (HBCSE) has conducted “Weekly sessions of discussion seminars” through webinar during October 2020 to February 2021 under the Vigyan Pratibha Programme. SINP has co-ordinated the programmes in the Eastern Region of the country from time to time. Through these seminars, the participants were trained in various topics based on Science and Mathematics through discussions and various hands-on-activities.

## Students' Awards

### Best Performance Awards for Students

**Suman Das** and **Koustav Pal** have been awarded the best performance prize in Post M.Sc. jointly, in the session 2019-20 in Physics.

**Sourav Mandal** has been awarded the best performance prize in Post M.Sc. in the session 2018-19 in Biophysical Sciences.

**Suman Das** and **Koustav Pal** have been awarded the *A.P. Patro Memorial Prize* in Post M.Sc. jointly for the session 2019-20 in physics.

### Best Thesis Awards 2020

- Dr. Avik Banerjee [guide Prof. Gautam Bhattacharyya] for his PhD work on the subject *Composite higgs and physics beyond the standard model*
- Dr. Avik Banerjee [guide Prof. Arnab Kundu] for his research work on *Aspects of AdS/CFT with fundamental flavours*
- Dr. Arnab Singh [guide Prof. Milan K. Sanyal and Prof. Mrinmay Mukhopadhyay] for his thesis *Low Dimensional Magnetic Structures*

### PhD Awarded (April 2020 to March 2021)

1. Dr. Arpita Das, [Prof. Sankar De] Study of laser induced coherent phenomena in the rubidium atomic medium, Homi Bhabha National Institute, Mumbai, 9<sup>th</sup> March, 2021 [PDC]
2. Dr. Sweta Singh [Prof. Partha Saha] Role of epstein-barr virus in epithelial cell cancer, Homi Bhabha National Institute, Mumbai, 2<sup>nd</sup> March 2021 [PDC]
3. Dr. Rajarshi Bhattacharya, [Prof. Subir Sarkar] Search for Higgs boson pair production in the  $HH \rightarrow b\bar{b}\tau\tau$  channel in p-p collisions using CMS data at  $\sqrt{s} = 13$  TeV at the LHC, Homi Bhabha National Institute, Mumbai, 26<sup>th</sup> February, 2021 [PDC]