Aheesh Chandrakant Hegde

• Home: At. Goranmane, PO. Shelur, Tq. Siddapur, Dist. UK, Karnataka, India, 581340, Sirsi, India

Email: aheesh.hegde@niser.ac.in Phone: (+91) 8431875757

Gender: Male **Date of birth:** 14/11/2001 **Nationality:** Indian

WORK EXPERIENCE

Masters Thesis Project - Simulation and Building of Imaging Setup using THGEM

[07/2023 - 05/2024] **detector**

Prof. Bedangadas Mohanty & Dr. Shuddha Dasgupta, National Institute of Science Education &

Research

City: Bhubaneswar | Country: India

[05/2023 - 07/2023] Summer Internship Project- Triple-GEM Detector Performance Study

Dr. Saikat Biswas, Associate Professor, Bose Institute

City: Kolkata | Country: India

[09/2022 - 12/2022] Integrated Physics Lab - Muon Lifetime Detection with Scintillator and PMT

National Institute of Science Education and Research

City: Bhubaneswar | Country: India

[03/2021] Attendee of International Particle Physics Masterclass

ALICE with U. Jammu

City: Online

[12/2019 - 01/2020] **NIUS 17.1 Participant**

HBCSE, TIFR
City: Online

[2019 - 2023] **Core Committee Member**

NISER Astronomy Club

City: Bhubaneswar | Country: India

- Telescope handling (Setting up of 6", 8", 11" telescopes)
- Speaker, Event Coordinator

[2015] INSPIRE Award State Level Participant

City: Shivamogga | Country: India

EDUCATION AND TRAINING

[2019 – 2024] **Integrated M.Sc.**

National Institute of Science Education and Research https://www.niser.ac.in

City: Bhubaneswar | Country: India | Final grade: AB

[2018 - 2019] **12th**

SGV Mahesh PU College

City: Belagavi | Country: India | Field(s) of study: Physics (93), Chemistry (98), Mathematics (94),

Biology (91) | **Final grade:** 93.67%

[2015 - 2017] **10th**

SKB English Medium High School

City: Kansur, Karnataka | Country: India | Final grade: 97.12%

DIGITAL SKILLS

My Digital Skills

Python | C++ | CERN-ROOT | GEANT4 | Mathematica | Pythia | LaTeX

PUBLICATIONS

Investigation of the stability in the performance of triple GEM detectors for High Energy

[2024] Physics experiments

Reference: S. Mandal et. al., NIM-A, Volume 1064, 2024, 169389, ISSN 0168-9002,

Abstract: Gas Electron Multiplier (GEM) is one of the mostly used technologies in the High Energy Physics (HEP) experiments. GEMs are widely used as tracking devices due to their high-rate handling capability and good position resolution.

An initiative is taken to study the stability in performance of the GEM chamber prototypes in the laboratory using external radiation for Argon/CO2 gas mixture in 70/30 volume ratio. The effect of ambient parameters on the gain and energy resolution are studied. Very recently some behavioural changes in the performance of a single-mask GEM chamber is observed. The details of the experimental setup, methodology and results are reported here.

Observation of some anomalous behavior in GEM Detector after long irradiation. Г 2024 1

Reference: Mandal, Subir & Sen, Arindam & Chatterjee, Sayak & Gope, Somen & Dhani, S. & Hegde, Aheesh & Chatterjee, M. & Das, Supriya & Biswas, Saikat. (2024).

HONOURS AND AWARDS

[07/2019] **INSPIRE Fellowship Awarding institution:** Dept. of Science and Technology

HOBBIES AND INTERESTS

Yoga practitioner

- President, Yoga Club NISER (2022-2023)

Badminton

- Intra-NISER tournament winner team - 2023

Chess

- Participant at district level tournaments

Volleyball

- IISM-2019, Semifinalist

Poetry and Writing

- In Kannada and English languages. Glimpses are on Instagram,

Link: https://www.instagram.com/ento_ondu

LANGUAGE SKILLS

Mother tongue(s): Kannada

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Hindi

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user