GEUNWOO KIM MS & PHD STUDENT

E-mail: geunwoo@postech.ac.kr
Homepage: geunwookim.com

EDUCATION

Div. of Advanced Nuclear Engineering, Pohang University of Science and Technology (POSTECH) Pohang, Korea
PhD integrated student 2024. 09 -
- Advisor: Prof. Moses Chung
- Research area: RF deflecting cavity, Beam diagnostics, Beam dynamics

Dept. of Electronics and Information Engineering, Korea University Sejong, Korea
B.E. in Electronics and Information Engineering 2019 - 2023
- GPA: 4.07/4.50, Great honor

PUBLICATION

1. **Three data-selection approaches for beam position monitor offline calibration**
   G. Kim, E.S. Kim, J.W. Kwon, S. Jang*. *Journal of Instrumentation (JINST)*. 2024.06

INTERNSHIPS

Instution for Rare Isotope Science (IRIS) | Daejeon, Korea 2024.03 - 2024.07
- Data analysis of beam position monitors and study of analog electronic components.

Helmholtz-Zentrum Berlin (HZB) | Berlin, Germany 2022.07 - 2022.08
- Analysis of longitudinal eigenfrequency of electron beam and measurement.

AWARDS AND HONORS

- **POSTECHIAN Fellowship (Creativity)**, Exceptional incoming graduate student
  Pohang University of Science and Technology (POSTECH) 2024. 11
- **Gold award**, Elegant simulation hands-on training
  International School on Beam dynamics and Accelerator Technology (ISBA23) 2023. 08
- **Outstanding award**, Accelerator summer school, Korea University 2023. 07
- **Great honor**, Korea University 2023. 02
- **Dean's list**, Korea University 2022. 02

ACTIVITIES

Oral Presentation

1. **Measurements of synchronous tune under extreme circumstances** 2023.08
   International School on Beam dynamics and Accelerator technology (ISBA23)

Poster Presentations

1. **Design and simulation of iris-loaded RF deflecting cavity for PAL-eLABs** 2024. 11
   26th International Conference on Accelerators and Beam Utilization (ICABU2024)

2. **Higher-order Calibration of Button-type Beam Position Monitor via a test bench** 2023. 11
   25th International Conference on Accelerators and Beam Utilization (ICABU2023)

3. **Analysis of longitudinal eigenfrequency of electron beams and measurement through chromatic coupling in a storage ring at extreme condition** 2022. 08
   HZB Summer Student Programme (SSP2022)

SKILLS

Languages: Korean, English.

Programming: Python, Matlab.

Simulation tools: CST studio suite, Elegant, LTspice.

EXPERIENCE

Experienced at Korea University

General Physics and Exercise I (DSSP161)
Teaching Assistant (TA)   Spring 2024

General Physics and Exercise I (DSSP161)
Teaching Assistant (TA)   Spring 2023

General Physics and Exercise II (DSSP162)
Teaching Assistant (TA)   Fall 2023

Introduction to Physics (DSSP167)
Teaching Assistant (TA)   Spring 2024

Introduction to Physics (DSSP167)
Teaching Assistant (TA)   Spring 2023

Conceptual Physics (DSSP169)
Teaching Assistant (TA)   Spring 2023