



**NP** is a highly distributed scientific field, utilizing various data types across different scales, making it **ideal for AI/ML applications**.

## Tremendous interest and activity in AI/ML in NP:

- NP researchers already have the talent and many of the tools required for the AI/ML revolution.
- NP addresses challenges that are not addressed in current technologies.
- NP presents data sets that expose limitations of cutting edge methods.
- **Cross collaboration:** To solve the many complex programs in the field and facilitate discoveries strong collaborations between NP and data science would be beneficial for all parties.
- **Education** is key to increase the level of AI-literacy – research programs and curricula in data science can help to attract students.

# AI4EIC

AI/ML already has an **important presence in EIC** with many prototypes, e.g., for detector optimization or reconstruction methods using ML.

- [AI4EIC 2021 and 2022 workshops](#) with 200+ participants each
- Summary: [Artificial Intelligence for the Electron-Ion Collider \(AI4EIC\)](#)

To explore and develop the full potential of **AI/ML for ePIC**, we need to **move from prototyping to production** and add promising AI/ML approaches into our workflows.



# AI Town Hall Meeting

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The event aims to achieve two important goals:

- 1) Showcase AI/ML projects and** inspire the work on AI/ML in ePIC.
- 2) Gain insight into AI/ML activities** happening within ePIC.