

Focused workshop on AI in High Energy Physics

Monday 6 January 2025

Session: Session 2 (10:00 - 12:00)

| time | [id] title | presenter |
|-------|---|------------------------|
| 10:00 | [4] MadNIS - Towards the first ML event generator | Dr WINTERHALDER, Ramon |
| 10:45 | [3] Generative Modeling is Imitation Learning | Dr YOON, Sangwoong |
| 11:30 | Free Discussion | |

Session: Session 1 (14:00 - 15:30)

| time | [id] title | presenter |
|-------|---|-------------------|
| 14:00 | [1] Mapping Dark Matter through the Dust of the Milky Way with Gaia DR3 and Normalizing Flows | Prof. SHIH, David |
| 14:45 | [2] Learning for Galactic Dynamics: Neural Stellar Density Estimation for Mapping Dark Matter in the Local Universe | Dr LIM, Sung Hak |

Tuesday 7 January 2025

Session: Session 4 (10:00 - 12:00)

| time | [id] title | presenter |
|-------|---|----------------------|
| 10:00 | [7] Goodness-of-fit by Neyman-Pearson Testing | Prof. WULZER, Andrea |
| 10:45 | [8] Quantum Machine Learning | PARK, Myeonghun |
| 11:30 | Free discussion | |

Session: Session 5 (14:00 - 15:30)

| time | [id] title | presenter |
|-------|---|------------------------|
| 14:00 | [9] Top Quark Polarimetry with ParticleNet | Prof. KONG, Kyoungchul |
| 14:45 | [10] Three-Body Entanglement in Particle Decays | Prof. SAKURAI, Kazuki |