

Session Program

4-6 Feb 2026

Modelling Astrophysical Plasmas with iPIC3D: First Conference on Implicit PIC Simulations and Beyond

iPIC3D Session 7

Huis Bethlehem, Aula Wolfspoor (00.08)
Schapenstraat 34, Leuven 3000

Thursday 5 February

15:45

iPIC3D Session 7: Chair - Luca Pezzini

Session | **Location:** Huis Bethlehem, Aula Wolfspoord (00.08), Schapenstraat 34, Leuven 3000 | **Conveners:** Talha Arshad, Giulio Ballerini, Jaeyoung Park, Johan Sharma

15:45-16:10

Adaptive Mesh Refinement (AMR) enabled semi-implicit PIC to study the onset of reconnection during substorms (online)

Speaker

Talha Arshad

16:10-16:35

The nature of electric field fluctuations in the near-Sun solar wind and its implication for the turbulent energy transfer at sub-ion scales

Speaker

Luca Franci

16:35-17:00

Formation of sub-ion scale current sheets in kinetic Alfvén wave turbulence using iPIC3D (online)

Speaker

Johan Sharma

17:00-17:25

Implicit PIC Simulations for Fusion Research (online)

Speaker

Jaeyoung Park

17:25