December 19, 2023

Monte Carlo and Molecular Dynamics Tools, VT 2024

Projects

P1 Stellar populations within clusters
Alex Mustill (AM)

P2 Monte Carlo simulation of a minimal model for protein fibril formation
Anders Irbäck (AI)

P3 Monte Carlo simulation of photon interactions with matter
Michael Ljungberg (ML)

P4 Write a parton shower
Leif Lönnblad (LL)

P5 Molecular dynamics simulation of biomolecules
Ulf Ryde (UR)

PF An extended project in one of these five areas.

Schedule

- **Feb 5–9: introductory lectures**
  Mon 5: 13:15–15:00, lecture (LL)
  Tue 6: 13:15–15:00, lecture (LL)
  Thu 8: 13:15–15:00, lecture (AI)
  Fri 9: 13:15–15:00, lecture (AI)

- **Feb 12–16: project P1**
  Mon 12: 10:15–12:00, lecture (AM)
  Tue 13: 10:15–12:00, lecture (AM)
  Fri 16: 17:00, deadline report

- **Feb 19–23: project P2**
  Mon 19: 10:15–12:00, lecture (AI)
  Tue 20: 10:15–12:00 lecture (AI)
  Fri 23: 17:00, deadline report

- **Feb 26–Mar 1: project P3**
  Mon, Feb 26: **13:15–15:00**, lecture (ML)
  Tue, Feb 27: 10:15–12:00, lecture (ML)
  Fri, Mar 1: 17:00, deadline report

- **Mar 4–8: project P4**
  Mon 4: 10:15–12:00, lecture (LL)
  Tue 5: 10:15–12:00, lecture (LL)
  Fri 8: 17:00, deadline report
- **Mar 11–15: project P5**
  Mon 11: 10:15–12:00, lecture (UR)
  Tue 12: 10:15–12:00, lecture (UR)
  Fri 15: 17:00, deadline report
- **Mar 18–Apr 3: project PF**
  Mon, Mar 18: 10:15–12:00, start of project
  Wed, Apr 3: 10:15–15:00, oral presentations

Room: Cassiopeia in the astronomy building

Coordinator: Anders Irbäck (email: anders.irback@cec.lu.se)