Monte Carlo and Molecular Dynamics Tools, Spring 2019

Projects

P1 Stellar populations within clusters
    Melvyn B. Davies (MBD)

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 the areas above.

Schedule

- April 1–5: introductory lectures
  Mon 1: 10.15–12.00, lecture (LL)
  Wed 3: 10.15–12.00, lecture (LL)
  Thur 4: 10.15–12.00, lecture (AI)
  Fri 5: 10.15–12.00, lecture (AI)

- April 8–12: project P1
  Mon 8: 13.15–15.00, lecture (MBD)
  Tue 9: 13.15–15.00, lecture (MBD)
  Fri 12: 17.00, deadline P1 report

- April 15–26: project P2
  Mon 15: 13.15–15.00, lecture (AI)
  Tue 16: 13.15–15.00 lecture (AI)
  Fri 26: 17.00, deadline P2 report

- April 29–May 3: project P3
  Mon, April 29: 10.15–12.00, lecture (ML)
  Tue, April 30: 10.15–12.00, lecture (ML)
  Fri, May 3: 17.00, deadline P3 report
• **May 6–11: project P4**
  Mon 6: 13.15–15.00, lecture (LL)
  Tue 7: 13.15–15.00, lecture (LL)
  Fri 11: 17.00, deadline P4 report

• **May 13–17: project P5**
  Mon 13: 13.15–15.00, lecture (UR)
  Tue 14: 13.15–15.00, lecture (UR)
  Fri 17: 17.00, deadline P5 report

• **May 20–June 5: project PF**
  Mon, May 20: 13.15–15.00, start of project
  Wed, June 5: 10.15–16.00, oral presentations

All lectures are in room Cassiopeia (Astronomy).

Coordinator: Anders Irbäck (phone 046-2223493, email anders@thep.lu.se)