

HIP theory project Phases of Strongly Interacting Matter
Review 15.-16.4.2025, University of Jyväskylä, Finland

Tuesday 15.4.

- (Train from Helsinki arrives 10:39)
- 9:30 – 11:00: Welcome to Physics department, informal discussions with Jyväskylä seniors
- 11:15 – 12:25 Open session 1 (FYS 3):
 - Project overview: Heikki Mäntysaari) (25+5)
 - Regular talks
 - Jussi Auvinen: “Neural network -enhanced Bayesian global analysis of relativistic heavy ion collisions” (15+5)
 - Petja Paakkinen: “Hunting for glue and strangeness in nuclei” (15+5)
- 12:25 – 13:30 Lunch
- 13:30 – 15:10 Open session 2 (KEM3)
 - Overview: Niko Jokela “Holography” (20+10)
 - Overview: Risto Paatelainen “Dense QCD matter Equation of State” (20+10)
 - Regular talks
 - Mikko Seppälä: “Efficient loop calculations in light cone QCD” (15+5)
 - Aleksi Piispa: “Holographic QCD near the critical point” (15+5)

Wednesday 16.4.

- 9:00 – 10:20 Regular talks (FYS3)
 - Joni Laulainen: “Pythia and recent developments for DIS” (15+5)
 - Patricia Gimeno Estivill: “Gluon saturation in D^0 photoproduction” (15+5)
 - Pooja: “Diffusion of heavy quarks in the initial stages of heavy-ion collisions” (15+5)
 - Xuanbo Tong: “Spin-dependent odderon” 15+5
- 10:20 – 11:00: Free discussions with coffee
- 11:00 – 12:00: Seminar (Jacopo Ghiglieri): “Classical and quantum physics in jet quenching”
- 12:00 – 13:00: Lunch
- 13:00 – 16:00: Time for discussions and report writing