Session Program

May 25 – 27, 2022

Bayesian Inference in High-Energy Physics

Computer Science and Statistics

IPPP, OC218

Thu, May 26

9:00 AM

Computer Science and Statistics: Mathematical aspects of Bayesian inference, by the Statistics group @ Durham

Session | **Location:** IPPP, OC218 | **Convener:** Prof. Ian Vernon

9:00 – 9:40 AM **Fully Bayesian parameter inference for Markov processes**

Speaker
Darren Wilkinson

9:40 – 10:20 AM

Bayes linear strategies for emulation and history matching for complex computer models

Speaker
Michael Goldstein

10:20 – 11:00 AM

Multilevel Emulation of Complex Computer Models, with application to EAGLE, a Galaxy Formation Simulation

Speaker
Ian Vernon

11:00 – 11:20 AM **Coffee break**

11:20 AM – 12:00 PM

Enforcing stationarity through the prior in vector autoregressions

Speaker
Sarah Heaps

12:00 – 12:30 PM **Contemporaneous MCMC**

Speaker
Louis Aslett

12:50 PM