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ECLAIR: a complete toolbox for cosmological inference

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In this talk, I will present the ECLAIR (Ensemble of Codes for Likelihood Analysis, Inference, and Reporting) suite of codes, meant to be used as a general inference tool. It allows the sampling – via massively parallelizable MCMC techniques – of the posterior distribution of a set of parameters corresponding to a particular physical model, under the constraint of a number of recent datasets/likelihoods. Among its notable features are a powerful parser, a robust maximizer aimed for finding the best likelihood, and a Bayesian evidence calculator. The suite also include a series of plotting scripts, allowing to conveniently diagnose and check the convergence of a chain, as well as produce summary statistics on the parameters of interest.

Author: ILIC, Stéphane (IJCLab)

Orateur: ILIC, Stéphane (IJCLab)

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