

Title: Nets and nests: accelerated Bayesian inference in astrophysics

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Abstract: Bayesian inference methods are widely used to analyse observations in particle physics and cosmology, but they can be extremely computationally demanding. Recent work in this area has focussed on developing new methods for greatly accelerating such analyses, in particular by using neural networks and nested sampling methods. I will give a brief outline of these approaches, which are generic in nature, and illustrate their use in a cosmological case study.