Nested Sampling as a blind search method in condensed matter systems ROBERT BALDOCK, GABOR CSANYI, LIVIA BARTOK-PARTAY, ALBERT BARTOK-PARTAY, University of Cambridge — Nested Sampling is a Bayesian blind search method for calculating the density of states. Nested Sampling samples almost entirely in the region of first order phase transitions, thereby efficiently delivering entire phase diagrams without specific system knowledge. Here we present the latest methods for applying nested sampling to condensed matter systems.

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