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CLT in the Annealed Region of the Diluted Mean-Field Spin Glass

This talk represents joint work with Brigitta Vermesi. Using Stein's method, Chatterjee and Crawford proved a CLT for the energy density in the high temperature region of the Sherrington–Kirkpatrick mean-field spin glass model. Using Chen's extension of Stein's method, we proved CLT's for the dilute mean-field spin glass model known as the Viana–Bray model, where only a fraction of edges are present, leaving a random graph. The fluctuations are larger and some new features appear.