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Forum de Physique Statistique @ ENS

Mercredi 9 Avril 2025, 12 :30
LPENS, 3 rue dUlm, College de France, salle de conference
Domaines : cond-mat.stat-mech

Titre : *Assisting sampling of physical systems with generative models*

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Résumé : *Deep generative models parametrize very flexible families of distributions able to fit complicated datasets of images or text. These models provide independent samples from complex high-distributions at negligible costs. On the other hand, sampling exactly a target distribution, such as the Boltzmann distribution of a physical system, is typically challenging : either because of dimensionality, multi-modality, ill-conditioning or a combination of the previous. In this talk, I will discuss opportunities and challenges in enhancing traditional Monte Carlo methods with learning.*