SEMPARIS – Séminaires en région parisienne

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Forum de Physique Statistique @ ENS

Mercredi 13 Octobre 2021, 14 :30
LPENS, L367
Domaines : cond-mat.str-el

Titre : *Scaling hypothesis for projected entangled-pair states*

Orateur : **Laurens Vanderstraeten (Ghent University)**

Résumé : *ensor network methods are well-known for simulating strongly-correlated quantum systems in one and two dimensions, but they can also be naturally applied to problems in statistical mechanics. In this talk, I will explain how the partition function of different types of models can be represented as a tensor network, and how tensor networks are used for simulating these models numerically. Finally, I will formulate a scaling hypothesis for tensor networks, which can be used to extract critical data with high precision. [arXiv : 2102.03143]*