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AIHPD Annales de l'Institut Henri Poincar   D

CMH Commentarii Mathematici Helvetici

EM Elemente der Mathematik

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GGG Groups, Geometry, and Dynamics

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JEMS Journal of the European Mathematical Society

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- Dominos in hedgehog domains**
Marianna Russkikh
pp. 1 – 33
- On the unbalanced cut problem and the generalized Sherrington-Kirkpatrick model**
Aukosh Jagannath | Subhabrata Sen
pp. 35 – 88
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On the unbalanced cut problem and the generalized Sherrington-Kirkpatrick model

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Abstract

We establish a strict asymptotic inequality between a class of graph partition problems on the sparse Erdős-Rényi and random regular graph ensembles with the same average degree. Along the way, we establish a variational representation for the ground state energy for generalized mixed p -spin glasses and derive strict comparison inequalities for such models as the alphabet changes.

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