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Forum de Physique Statistique @ ENS

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Titre : *Four-point cluster connectivities in critical Potts models*

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Résumé : *Percolation is a signature example of geometric critical phenomena which describes random spatial processes, and the model has many practical applications. One of the fundamental observables in percolation involves correlation functions describing the connectivity of a number of points in terms of cluster configurations. Such quantities can be approached through the Fortuin-Kasteleyn formulation of the Q-state Potts model. I will describe how to determine the four-point connectivities in the critical model using the conformal bootstrap approach. Comparisons with the lattice formulation of minimal models are made to give insights into the structure of the spectrum. This leads to the concept of interchiral conformal block and full numerical results of the four-point connectivities.*