

# Inn'formal Probability Seminar

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“Asymptotic expansion in spin  $O(N)$  models”

**Abstract:**

I will present the problem of deriving asymptotic expansions in powers of a suitable parameter for various quantities arising in the study of random fields as well as the motivation for these expansions. I will then briefly discuss a method to rigorously derive such expansions in the temperature in the case of the lattice spin  $O(N)$  models.

Based on joint work with A. Giuliani.

Tuesday | 20.06.2023 | 14:16  
HSB6 | Civil Engineer Building