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Non-linear conductances of Galton-Watson trees

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Some statistical mechanics models on trees may sometimes reduce to the study of some "simple" tree recursion; this is for instance the case for the Ising model and FK-percolation model. It turns out that when the recursion is concave, we can compare this tree recursion to the one verified by (possibly non-linear) resistive networks.

I will present some recent work with Irene Ayuso Ventura (Durham), in which we obtain precise estimates on the asymptotic behaviour of non-linear conductances of Galton-Watson trees, also deriving some information on the FK-percolation model on random trees.

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