

27th Rencontres ITZYKSON : Fluctuations far from Equilibrium



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Bernard DERRIDA - At the transition between pulled and pushed fronts

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The shift of the position of a front found by Bramson in the case of the Fisher-KPP equation is modified at the transition between pulled and pushed fronts. Based on an exactly solvable case, one can predict the cross-over function which determines this shift near this transition. The correction due to a cut-off is also modified at this transition. This raises the question of whether the cut-off approximation still describes accurately the effect of a weak noise of the stochastic PDE.

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