ABSORBING STATES AND PINNED INTERFACES IN RANDOM MEDIA: TWO DESCRIPTIONS OF THE SAME PHENOMENON

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Through years, computer simulation results showed that pinned interfaces in random media pinning forces, systems with absorbing states and a conservation law, and sandpiles, share the same critical exponents. In this poster, we show that the similarity between exponents is not coincidental: all these models define a unique universality class. In passing, we refute the only argument which questioned the former equivalence, i.e. the large discrepancy in some local scaling properties, which we argue to be an irrelevant trait.

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