

## 20ème conférence Claude Itzykson - Random Surfaces and Random Geometry



ID de Contribution: **18**

Type: **Invited talk**

### **The field theory of avalanches**

*vendredi 12 juin 2015 14:30 (45 minutes)*

When elastic systems like contact lines on a rough substrate, domain walls in disordered magnets, or tectonic plates are driven slowly, they remain immobile most of the time, before responding with strong intermittent motion, termed avalanche. I will describe the field theory behind these phenomena, explain why its effective action has a cusp, and how such intricate objects as the temporal shape of an avalanche can be obtained.

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