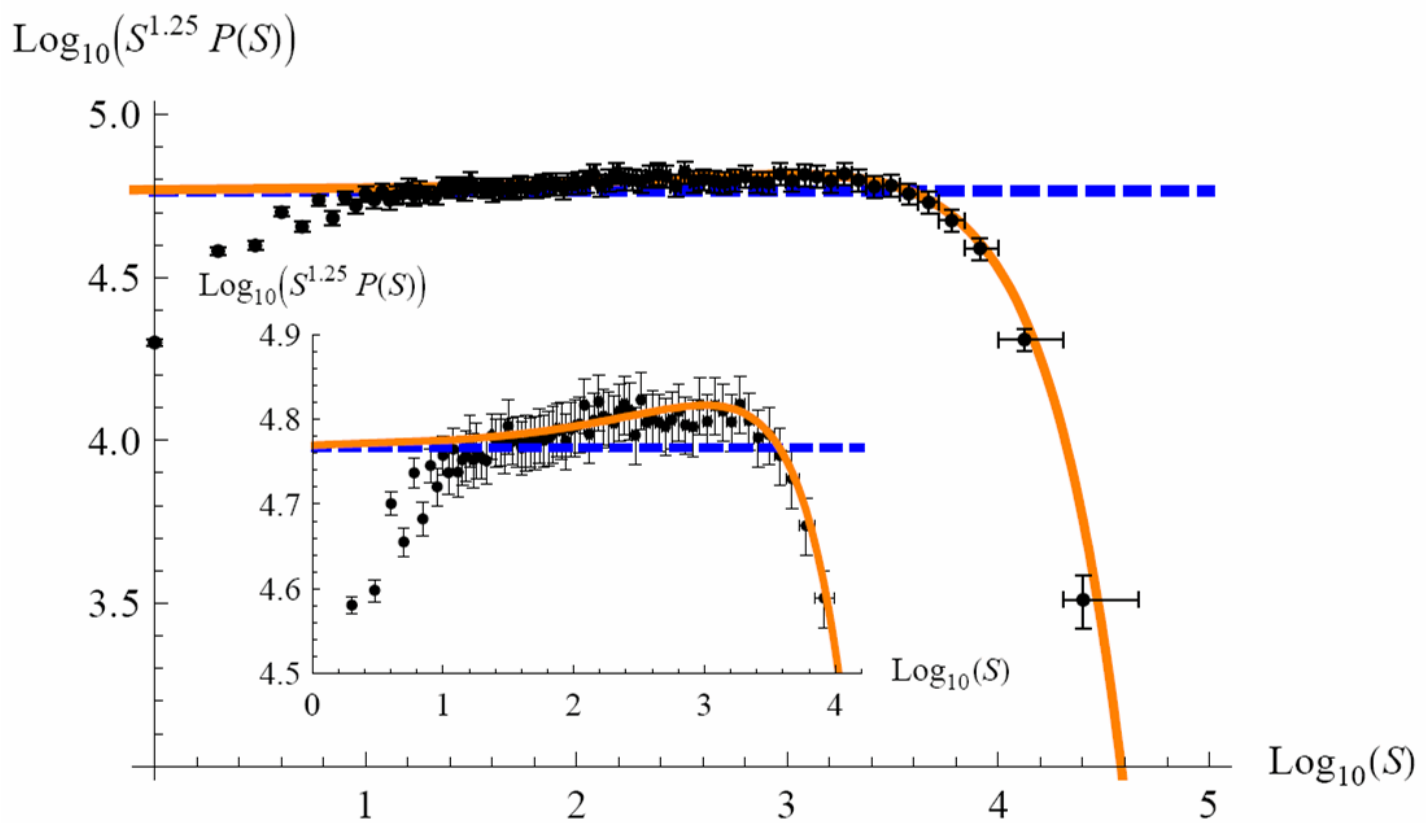
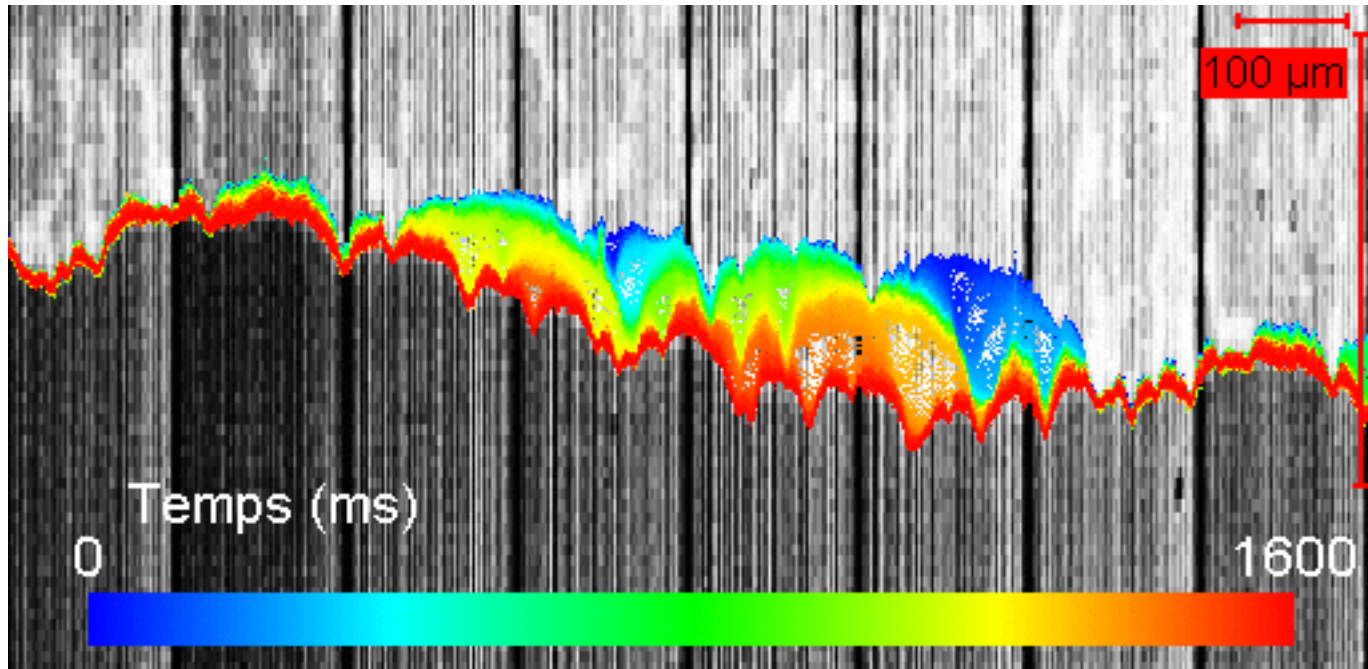


Research Highlight: Avalanches



Functional Renormalization

$$P(S) = \frac{\langle S \rangle}{2\sqrt{\pi}} S_m^{\tau-2} A S^{-\tau} \exp\left(C \sqrt{\frac{S}{S_m}} - \frac{B}{4} \left[\frac{S}{S_m} \right]^\delta \right)$$

A, B, C, τ, δ

Statistics of static avalanches in a random pinning landscape,

[b] [p]

Size distributions of shocks and static avalanches from the Functional Renormalization Group

[b] [p]