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Investigating the interaction between rough surfaces by using the Fisher–Shannon method: Implications on interaction between tectonic plates

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### ACCEPTED MANUSCRIPT

#### Highlights

- 1. The interaction between surfaces with asperities is studied
- 2. Voltage series are recorded by stick-slip experiments
- 3. The Shannon entropy of the voltage series decreases with the runs
- 4. The FIM increases with the runs
- 5. The experimental model mimics aging effect of a tectonic fault

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