

## **Non-Extensive Framework for Earthquakes: The Role of Fragments**

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### **A b s t r a c t**

The inclusion of fragment-asperity interaction inside tectonic plates to find a frequency magnitude relation for earthquakes, and the need for non-extensive statistics in this case is exposed. The usefulness of this formulation is shown. A comparison with seismic observations is also discussed.

**Key words:** non-extensivity, statistics, fragmentation.