



A spatial scaling of seismicity

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The optimal spatial scaling of seismicity in a randomized seismogenic cell of size L is considered. A theoretical solution of the problem for the case of multifractal seismicity is corroborated by empirical analysis of California events with magnitude greater or equal 2.0. Theoretical results on the existence and shape of some unified (scale-free) laws in seismicity are discussed as well. (See arXiv.org/physics/0512264 and [0511024](http://arXiv.org/physics/0511024) for details).