

Abstract Submitted  
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**Correlation Networks of Earthquakes** JOEL TENENBAUM, Boston University Physics — Earthquake events are complex spatiotemporal phenomena, the space and time dependence of which are still not understood. Recently work has been done to explain these events using network modeling, defining links by successive events or probabilities. Our novel approach defines a new kind of network model which defines links through correlation. We find broad correlations across large distances and memory-like signal self-similarity, with statistically significant “synching” of different locations to each other.

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