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Multiscale multifractal detrended fluctuation analysis of earthquake magnitude series of Southern California

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Highlights:

- (1) A method for the scale division of the magnitude based on EMD and multifractal analysis is proposed.
- (2) Three different scale series: Micro-, Mid- and Macro-scale subsequences are superposed and reconstructed.
- (3) The multifractal properties of the magnitude time series at multiple scales are different.

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