



Fig. 5.10 Detrended Fluctuation Analysis (DFA) for the declustered catalog of Vrancea seismicity. Open circles and crosses represent the earthquake data and the Brownian process (fbm05), respectively. The slopes of the two fitted lines (i.e., the scaling exponent  $C$ ) are practically the same, indicating that there are no significant temporal correlations for Vrancea earthquakes. The natural logarithm (base  $e$ ) is used for these analyses.