

# Maxima of the Riemann zeta function in a short interval of the critical line

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We present the probabilistic techniques, coming from the study of branching random walks and log-correlated Gaussian fields, to study the local extrema of the zeta function on the critical line. In particular, we sketch a proof of the leading order of the maximum as conjectured by Fyodorov, Hiary and Keating. We also discuss what the heuristics would entail for the joint statistics of the local extrema.

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