
Influence of irregular node spacing in noisy rational interpolation.

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Abstract

To the lowest order in the noise amplitude, a certain Froissart Polynomial (FP) governs part of the statistics of the zeros and poles in stochastically perturbed rational interpolation. The FP is actually a random polynomial and there is an interplay between the noise, the pattern of the interpolation nodes and the statistical pattern of the zeros of the FP.

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