Discrete Bernoulli convolutions

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(joint work with Neil J. Calkin, Julia Davis,
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In this talk, we consider a discrete version of the Bernoulli convolution problem traditionally studied via functional analysis. The related integer sequences have a number of interesting properties. We discuss several innovative algorithms for computing these sequences. Motivated by a question of Solomyak [6], we are interested in gathering data regarding the maximum values. By looking at a family of associated polynomials, we are able to gain insight on the local behavior of these related integer sequences.

References

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