

# Asymptotic behavior of regular sequences

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The asymptotic behavior of a  $k$ -regular sequence can usually be obtained from linear algebra techniques (Jordan normal forms, joint spectral radii,...). In this talk I will consider an example inspired by binomial coefficient of words and present a new method based on exotic numeration systems that allows to recover the same results. This method also allows to handle sequences that are not known to be  $k$ -regular for any  $k$  but that present some regularity with respect to some other numeration system.

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