

# Systems and Control Group Seminar

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Room 11.2.21

Mathematics Department, University of Aveiro

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## Discrete convolution operators and equations

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### Abstract

This presentation introduces discrete convolution operators and explores their fundamental properties. It then addresses the solution of linear difference equations that involve these operators. The developed framework notably extends the theory of discrete fractional calculus and fractional difference equations. This generalization is achieved through the use of Sonine pairs of kernels.

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