Structural stability of linear difference equations in Hilbert space

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Abstract: In this note, we prove that linear difference equations in Hilbert space are structurally stable if and only if they have an exponential dichotomy. ?? 1998 Elsevier Science Ltd. All rights reserved. Author Keywords: Exponential dichotomy; Linear difference equations; Structural stability Index Keywords: Convergence of numerical methods; Theorem proving; Exponential dichotomy; Hilbert space; Linear difference equations; Difference equations

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