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Eventually Cone-Positive Semigroups of Linear Operators.

Abstract

We extend the theory of eventually nonnegative, eventually-exponentially nonnegative matrices and eventually positive semigroups to eventually cone-positive semigroups of linear operators on Banach lattices. We assume all the cones are proper and cone positivity is invariance of the cone under a given operator, while strong-cone-positivity is invariance of the interior of the cone. We examine the extension via properties of some classes of matrices, resolvent positive operators and Perron Frobenius type properties.

Talk time: 2016-07-21 03:30 PM— 2016-07-21 03:50 PM
Talk location: Cupples I Room 207