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Semi-invertible Multiplicative Ergodic Theorems

We discuss the semi-invertible case of the Oseledets multiplicative ergodic theorem (when the underlying transformation is invertible but the matrices being multiplied are not necessarily). We give a substantial strengthening of the theorem's conclusion in this case and consider applications in ocean models. We also discuss extensions to the case of composition of operators.

Joint work with Gary Froyland and Simon Lloyd.