

Convergence of sequences of linear fractional transformations

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Abstract

Linear fractional transformations occur in a number of mathematical areas. Many of these applications depend on convergence properties for sequences of such transformations. Therefore we can find convergence criteria for such sequences in many different settings, such as for instance operator theory, group theory, continued fractions, orthogonal polynomials and similar recurrence theory, dynamical systems, moment problems etc. It is therefore no surprise that convergence theorems are discovered and rediscovered throughout the literature.

In this talk we try to unify some of these results and even extend some of them, in order to give a better picture of what is actually known.