



## On Certain Orbital Convergences with an Arzelà-Ascoli Type Theorem

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### Abstract

This study considers orbital versions of alpha convergence and the notion of exhaustiveness for sequences of functions defined between metric spaces and examines their connections with existing notions. Moreover an Arzelà-Ascoli type theorem is established, showing that orbital exhaustiveness is sufficient instead of equicontinuity in the conditions to obtain an orbitally alpha convergent subsequence.

**Keywords:** Function sequences, alpha convergence, exhaustiveness, Arzelà-Ascoli theorem.

### References:

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