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On Generalisations of Fejér Monotonicity: Fejér and Opial Sequences*

In this talk, we explore recently introduced extensions of Fejér monotonicity, namely Fejér* monotonicity and Opial sequences. We present a series of counterexamples showing that, in these generalized settings, several classical Fejér properties fail; nevertheless, in certain cases, suitable weakened variants of these properties can still hold. The connections between these notions and various forms of quasi-Fejér monotonicity are examined.