

## TUKEY REDUCTION

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Tukey reduction is a very general notion allowing one to compare directed orders. The notion originated in the theory of convergence in topological spaces. More recently, it proved useful in classification problems and in the study of cardinal invariants of the continuum. In the talk, I will describe results in which Tukey reduction is applied to investigate the structure of the classes of analytic P-ideals of subsets of  $\omega$  and of analytic  $\sigma$ -ideals of closed subsets of compact spaces. The talk will be based mostly on joint work with Stevo Todorćević.

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