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P-ideal dichotomy and some versions of the Souslin's Hypothesis

Joint work with Stevo Todorčević

P-ideal dichotomy is a combinatorial set theoretic principle which has many consequences on the universe of set theory. For example, it implies the Souslin's Hypothesis, Singular Cardinals Hypothesis, and Projective Determinacy. In this talk we will analyze a relationship between the P-ideal dichotomy and the statement that all Aronszajn trees can be embedded into the rational line.