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Extending the ideal of nowhere dense subsets of rationals to a P-ideal

Comment.Math.Univ.Carolin. 54,3 (2013) 429–435.

Abstract: We show that the ideal of nowhere dense subsets of rationals cannot be extended to an analytic P-ideal, F_σ ideal nor maximal P-ideal. We also consider a problem of extendability to a non-meager P-ideals (in particular, to maximal P-ideals).

Keywords: P-ideal; nowhere dense set; extension; analytic ideal; maximal ideal; meager ideal; ideal convergence

AMS Subject Classification: Primary 54D35; Secondary 54G10, 54D80, 40A05, 40A35

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