

Dzhafarov, Damir D.; Goh, Jun Le; Hirschfeldt, Denis R.; Patey, Ludovic; Pauly, Arno
Ramsey's theorem and products in the Weihrauch degrees. (English) [Zbl 07271557](#)
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Summary: We study the positions in the Weihrauch lattice of parallel products of various combinatorial principles related to Ramsey's theorem. Among other results, we obtain an answer to a question of Brattka, by showing that Ramsey's theorem for pairs (RT_2^2) is Weihrauch-incomparable to the parallel product of the stable Ramsey's theorem for pairs and the cohesive principle ($SRT_2^2 \times COH$).

MSC:

03D Computability and recursion theory

Keywords:

computable combinatorics; Ramsey theory; computability theory; reverse mathematics

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