Indicators, chains, antichains, Ramsey property

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Abstract. We introduce two Ramsey classes of finite relational structures. The first class contains finite structures of the form $(A, (I_i)_{i=1}^n, \leq, (\preceq_i)_{i=1}^n)$ where $\leq$ is a total ordering on A and $\preceq_i$ is a linear ordering on the set $\{a \in A : I_i(a)\}$. The second class contains structures of the form $(A, \leq, (I_i)_{i=1}^n, \preceq)$ where $(A, \leq)$ is a weak ordering and $\preceq$ is a linear ordering on A such that A is partitioned by $\{a \in A : I_i(a)\}$ into maximal chains in the partial ordering $\leq$ and each $\{a \in A : I_i(a)\}$ is an interval with respect to $\preceq$.