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Title: On the smallest locally and residually closed class of groups, containing all finite and all soluble groups

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The class $\mathcal{C}$ was introduced in [1] as an infinite union of certain classes of groups. We provide a simpler characterization of the class $\mathcal{C}$. We confirm in the class $\mathcal{C}$ the conjecture by R. Grigorchuk, that all groups of intermediate growth are residually finite. We also consider the larger class obtained from $\mathcal{C}$ by closing under extensions. We show that Malcev conjecture – that every finitely generated group satisfying a positive law must be nilpotent-by-finite – known to hold in the class $\mathcal{C}$, remains true in the extended class $cl\mathcal{C}$.

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