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REMOVABLE SINGULARITIES FOR THE EQUATION $\mathrm{div}(v) = 0$

In this talk, we shall present some new results in the study of removable singularities for the equation $\mathrm{div}(v) = 0$. Recall that a (compact) set is called removable for the above equation with respect to a class B of measurable vector fields in $\mathbb{R}^n$ if for any $v \in B$, the condition $\mathrm{div}(v) = 0$ outside S implies $\mathrm{div}(v) = 0$ in $\mathbb{R}^n$. We shall in particular explain how characterizing removable sets relies heavily on integrability and/or continuity properties of the elements of B.

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