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On the geometric structure of normal and integral currents

Abstract:
In this joint work with G. Alberti and E. Stepanov we consider normal currents of the form $T=\xi\mu$ (where $\xi$ is a $C^1$ vectorfield and $\mu$ is a measure) and we investigate the interplay between the integrability of $\xi$ (in the sense of Frobenius Theorem) and the absolute continuity of $\mu$ with respect to the Lebesgue measure. This result is connected with the geometric structure of the boundary.

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