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Aula A2, CRM.

Strong and weak type estimates for singular integrals
with respect to measures separated by AD-regular boundaries

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ABSTRACT: Using new Calderón-Zygmund decompositions we prove weak and strong boundedness estimates for singular integrals in $\mathbb{R}^d$ with respect to $(d-1)$-dimensional measures separated by Ahlfors-David regular boundaries. Our strategy can be also used to extend an earlier result of David. This a joint work with X. Tolsa.