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# A MEAN VALUE THEOREM APPROACH TO THE REMOVABLE SETS OF PARABOLIC EQUATIONS

## Abstract

*In this paper, we prove Landis-Gerver's type mean value theorem adopted to the parabolic equations. As an application, Carlson type theorem on removable sets for  $H^{\alpha, \frac{\alpha}{2}}$ -Holder continuous solutions is investigated for the divergence structure linear parabolic equations. In partial, when  $\alpha$  is sufficiently small, we show that the compact set  $E$  is removable iff the anisotropic Hausdorff measure  $\Lambda^{\frac{(n+\alpha)}{n+2}}(E) = 0$ .*