

# Partial Regularity in Time for the Landau Equation with Coulomb Interaction

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**Abstract :** Whether there is global regularity or finite time blow-up for the space homogeneous Landau equation with Coulomb potential is a long standing open problem in the mathematical analysis of kinetic models. This talk shows that the Hausdorff dimension of the set of singular times of the global weak solutions obtained by Villanis procedure is at most  $1/2$ . (Work in collaboration with M.P. Gualdani, C. Imbert and A. Vasseur)