

1026-22-81

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Villeneuve d'Ascq, France. *Local differential galois group and adjoint representation.*

We construct a (generally) maximal torus containing the exponential torus and develop an algorithm to reduce the weight subspaces of dimension higher than 1 to root subspaces. We also study the regularity of the exponential torus in the local differential Galois group. (Received February 15, 2007)