## On the subriemannian geodesic equation in Carnot groups

Gian Paolo Leonardi

Università di Modena e Reggio Emilia gianpaolo.leonardi@unimore.it

In any Carnot group we prove that explicit polynomials arise from the integration of the adjoint equations for subriemannian geodesics, in both normal and abnormal cases. Some interesting applications of these polynomials will be presented.