An area formula for intrinsic regular graphs in homogeneous groups

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In this talk we present an explicit area formula to compute the spherical Hausdorff measure of an intrinsic regular graph in an arbitrary homogeneous group. In particular, we assume the intrinsic graph to be intrinsically differentiable at any point with continuous intrinsic differential. The main novelty of the area formula lies in the introduction of a suitable notion of intrinsic Jacobian and in the computation of an explicit expression for this object. This is joint work with V. Magnani (Università di Pisa).