Título: Parabolic Systems With Polynomial Growth And Regularity

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The authors establish a series of optimal regularity results for solutions to general non-linear parabolic systems ut-div a(x,t,u,Du)+H=0, under the main assumption of polynomial growth at rate p i.e. |a(x,t,u,Du)|=L(1+|Du|p-1),p=2. They give a unified treatment of various interconnected aspects of the regularity theory: optimal partial regularity results for the spatial gradient of solutions, the first estimates on the (parabolic) Hausdorff dimension of the related singular set, and the first Calderón-Zygmund estimates for non-homogeneous problems are achieved here.