Gaston Andres Garcia* (ggarcia@mate.unlp.edu.ar). Multiparameter quantum groups, bosonizations and cocycle deformations. 

In this talk we will discuss cocycle deformations on bosonizations of braided Hopf algebras $R$ over Hopf algebras with bijective antipode $H$ in order to study multiparameter quantum groups. With this in mind, we first describe quantum groups given by multiparametric deformations of enveloping algebras of Kac-Moody algebras as a family of pointed Hopf algebras, which are quotients of bosonizations of pre-Nichols algebras, and show that under some hypothesis, these quantum groups depend only on one parameter on each connected component of the Dynkin diagram; in particular, we obtain in this way a known result of Hu, Pei and Rosso. (Received August 14, 2014)