1030-16-109 **Dmitri Nikshych*** (nikshych@math.unh.edu), Dmitri Nikshych, Department of Mathematics, University of New Hampshire, Durham, NH 03824. Semisimple quasi-Hopf algebras of prime power dimension are group-theoretical.

This is a report on a joint work with Vladimir Drinfeld, Shlomo Gelaki, and Victor Ostrik. Let H be a semisimple quasi-Hopf algebra of a prime power dimension. We show that the center of its representation category Rep(H) is braided tensor equivalent to a twisted group double of some p-group. This implies that H is group-theoretical (i.e., Rep(H) is categorically Morita equivalent to the representation category of some commutative quasi-Hopf algebra). Our arguments are based on a reconstruction of twisted group doubles from Lagrangian subcategories of modular categories (this is reminiscent to Drinfeld's characterization of doubles of quasi-Lie bialgebras in terms of Manin pairs). (Received July 25, 2007)