1056-20-1659 **Marcos Zyman*** (mzyman@bmcc.cuny.edu), 199 Chambers St., New York, NY 10007, and **Stephen Majewicz**, 2001 Oriental Boulevard, Brooklyn, NY 11235. *Localization and extraction of roots in nilpotent R-powered groups.* Preliminary report.

Let $R$ be a binomial ring. A nilpotent group which comes equipped with an $R$-action, and satisfies certain desirable axioms is termed an *$R$-powered nilpotent group*. I will discuss some extensions of the theories of localization and radicable nilpotent groups to the broader class of nilpotent R-powered groups. If $\pi$ is a prime in $R$, I will define such local notions as $\pi$-monomorphisms and $\pi$-epimorphisms, and explain how they relate to root extraction in nilpotent $R$-powered groups. (Received September 22, 2009)