1077-17-120 **Peter Fedak**, Harvey Mudd College, Claremont, CA, **Gizem Karaali***, Pomona College, Claremont, CA, **Keith McHugh**, Pomona College, Claremont, CA, **Aaron Pribadi**, Harvey Mudd College, Claremont, CA , and **Sundeep Sampath**, Claremont Graduate University, Claremont, CA. *Constructing Integrable Systems From Graded Classical r-Matrices*. Preliminary report.

We examine methods of constructing integrable systems from solutions of the graded classical Yang-Baxter equation (CYBE). This process is well-understood in the non-graded case; we extend its scope to Lie superalgebras by following the work of Zhang, Gould, and Bracken (1991). In particular, we explicitly describe an approach to go from the r-matrix solutions of the graded CYBE to an integrable classical system on a supermanifold. We illustrate our method with examples of integrable systems and examine how they relate to their non-graded counterparts. (Received July 28, 2011)