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Edward L Green* (green@math.vt.edu), Department of Mathematics, 460 McBryde Hall, Blacksburg, VA 24060, **Sybille Schroll**, Department of Mathematics, University of Leicester, University Road, Leicester, LE1 7RH, England, and **Nicole Snashall**, Department of Mathematics, University of Leicester, University Road, Leicester, LE1 7 RH, England. *Group gradings and actions on Brauer graph algebras*. Preliminary report.

I will introduce the theories of Brauer gradings and Brauer actions by finite abelian groups on Brauer graph algebras. I will also give some applications. (Received July 27, 2011)