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Amitabh Basu* (basu.amitabh@jhu.edu), 3400 N. Charles Street, Baltimore, MD 21218, and **Robert Hildebrand** and **Matthias Koeppel**. *Techniques for Gomory and Johnson's "Infinite Group" Problem.*

We describe some of the tools recently developed for analyzing Gomory and Johnson's Infinite Group problem. In particular, we will present higher dimensional generalizations of the so-called Interval Lemma, and give the details of the first ever algorithm for testing extremality of piecewise linear functions with rational breakpoints. (Received January 15, 2015)