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**Elizabeth Marie Buchanan\*** (embuchanan@smith.edu), **Corrie Elizabeth Ingall**, **Alex K Perry**, **Rebecca Katherine Rohrich** and **Ileana Streinu**, Smith College, Northampton, MA 01063. *Rigidity and the Pebble Game algorithm in 3D*. Preliminary report.

The Pebble Game algorithm of Hendrickson and Jacobs completely characterizes rigid frameworks in 2D. We present our investigations of classes of graphs recognized by generalized pebble game algorithms and their connections with 3D rigidity. (Received September 26, 2017)