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**Jay Griffiths\*** (jgriffit@smith.edu), Box 6927, Smith College, Northampton, MA 01063, and **Allison Reed-Harris** and **Rebecca Terry**. *Geometry of the Boundary configurations in a Phyllotaxis model*. Preliminary report.

Phyllotaxis is the study of the spiral arrangements in plants. These spirals most often come in two sets, whose numbers are consecutive Fibonacci numbers. We explore the set of initial conditions in a simple two-postulate dynamic-geometric model of Phyllotaxis. We focus on the stability question and in the geometry of the boundary between Fibonacci and Lucas configurations. (Received February 14, 2011)