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Cordelia McGehee*, 77 Mid Oaks Lane, Roseville, MN 55113, and **Christophe Golé, Gillian Riggs** and **Samantha Oestreicher**. *Configuration Spaces in Phyllotaxis*. Preliminary report.

Phyllotaxis is the study of plant organ arrangements such as the scales on a pine cone or the florets on a sunflower. A simple model for these arrangements consists of stacking disks on the surface of a cylinder. The resulting configuration is determined by the initial chain of disks around the cylinder. In this talk, we will examine some of the configuration spaces of those chains. (Received September 16, 2008)