Curtis Feist* (feistc@sou.edu) and Ramin Naimi. *Why Automobile Sunshades Fold Oddly: An Intriguing Application of Topology.*

Most of us are familiar with Magic Shade “automatic folding” sunshades, even if we don’t recognize the actual brand name; these shades for automobile windshields are roughly the shape of a circular disk when “open”, and then fold up into a coil of several smaller circles when “closed”, thus allowing the shades to be stored in a relatively small space. In this talk we discuss topological ideas that explain, with respect to folding, how these sunshades must behave. (Received September 21, 2009)