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J. Scott Carter* (carter@southalabama.edu), Department of Mathematics and Statistics,
Mobile, AL 36688. *Using globular to study higher dimensional knottings*. Preliminary report.

The program globular is an implementation of higher categorical principles to a geometric context. So for example the 2-category of 2-tangles can be studied via knotted surfaces. In addition surface braids, and 3-dimensional braids can be created. In this talk, I will demonstrate several examples of the use of globular, the implementation of the movie moves, and the implementation of the braid movie moves. (Received August 25, 2016)