

1086-53-1840 **Nicholas R Pasko*** (nrpasko@smcm.edu), Campus Center #1749, 16800 Point Lookout Rd., St. Marys City, MD 20686, and **Casey J Douglas**. *Gaussian Lines and Circles*. Preliminary report.

In this talk we discuss curves that exhibit self-similarity under mean curvature flow. Our approach uses undergraduate-friendly mathematics and reproduces the classification proven by Abresch and Langer. However, we also discuss connections to other areas (including Quantum Mechanics and manifolds with density) as well as new generalizations, enlarging the class of curves to so-called “Gaussian Lines” and “Gaussian Circles.” (Received September 24, 2012)