1062-35-276   **Stephen Kleene*** (`skleene@gmail.com`), 114 Clover Hills Drive, Rochester, NY 14618. *Positive and Negative Existence Results for Mean Curvature Flow Self Shrinkers.*

We present several negative results for existence of complete embedded self-shrinkers in the class of hypersurfaces of revolution. On the other hand, we present a construction of a complete embedded self shrinker with discrete rotational symmetries and high genus. (Received August 10, 2010)