

## **Discrete hyperbolic curvature flow in the plane**

The talk is concerned with the evolution of planar curves according to hyperbolic curvature flow, which can be seen as a hyperbolic analog of the well-known curve shortening flow. For a parametric approach the evolution can be described by a nonlinear system of PDEs which we subsequently discretize using a finite difference method. We prove error bounds in natural discrete norms and also show the results of numerical simulations. This is joint work with Robert Nuernberg (Trento).