

SOME RECENT ADVANCES IN PARAMETRIC FINITE ELEMENT APPROXIMATION OF SURFACE  
EVOLUTION UNDER GEOMETRIC FLOWS

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We report some recent advances in the numerical analysis of parametric finite element approximation to surface evolution under geometric flows, and then introduce a new approach for proving convergence of parametric finite element approximation to surface evolution, which allows the algorithm to include certain artificial tangential motions to improve the mesh quality of the triangulation on the approximate surface.