A blowup criterium for the spinor flow on surfaces

In this talk I will discuss recent work on the formation of singularities in the spinor flow on surfaces. More precisely, I will describe two blowup criteria. The proof of the blowup criteria is based on the one hand on a decomposition of the flow into the evolution of a conformal factor and a movement of constant curvature metrics, which has been introduced by Buzano and Rupflin for the Ricci-harmonic flow, and on the other hand on a new compactness theorem for Riemannian metrics on surfaces with injectivity radii bounded below, areas and L^2 norms of curvatures bounded above.