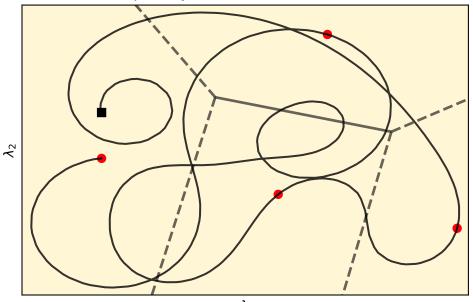2D-trajectory with Voronoi discretization