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Jun Hu. *How the maximal dilatation of the Douady-Earle extension near the origin is controlled by the distortion of the boundary map on finitely many points.*

We study how the maximal dilatation of the Douady-Earle extension near the origin is controlled by the distortion of the boundary map on finitely many points. Consider the case with points evenly spread on the circle. Then the maximal dilatation of the extension in a neighborhood of the origin has an upper bound depending only on the cross-ratio distortion of the boundary map on these points if and only if the number of points n is more than 4. Furthermore, the size of the neighborhood is universal for each $n > 4$, in the sense that it depends only on the distortion. (Received September 12, 2013)