The interior regularity of the Calabi flow on a toric surface

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Let X be a toric surface with Delzant polygon P and $u(t)$ be a solution of the Calabi flow equation on P. Suppose the Calabi flow exists in $[0, T)$. By studying local estimates of the Riemann curvature and the geodesic distance under the Calabi flow, we prove a uniform interior estimate of $u(t)$ for $t < T$.

This is a joint work with Xiuxiong Chen and Li Sheng.

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