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**Yilong Ni\*** ([yni@math.ou.edu](mailto:yni@math.ou.edu)), Department of Mathematics, University of Oklahoma, Norman, OK 73019. *One Dimensional Conformal Metric Flows.*

We define two conformal structures on  $S^1$  which give rise to a different view of the affine curvature flow and a new metric flow, the “Q-curvature flow”. The long time existence, convergence and steady state for these flows are studied. This is a joint work with Meijun Zhu. (Received July 30, 2006)