1052-53-278   **Gideon Maschler*** (`gmaschler@clarku.edu`), Department of Mathematics & Computer Science, Clark University, Worcester, MA 01606. *Distinguished metrics conformal to Kähler metrics.* Preliminary report.

Under what conditions is a Kähler metric g conformal to a distinguished Riemannian metric $\hat{g}$? We discuss positive, and partial negative answers to this question for various metric types, requiring $\hat{g}$ to be either Einstein, a gradient Ricci soliton or quasi-Einstein in the sense of Case, Shu and Wei. (Received August 30, 2009)