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Andrew Zimmer* (aazimmer@uchicago.edu). *Negative curvature in several complex variables.*

Any complex manifold has several intrinsic (but possibly degenerate) metrics: for instance the Kobayashi and Carathéodory metrics. In this talk we will describe when these metrics have negative curvature like behavior. Finding and exploiting this behavior leads to a number of new results including: a new characterization of polynomial domains via their automorphism group, the Greene-Krantz conjecture in the case of uniform non-tangential convergence, a new Denjoy-Wolff theorem, and new results about continuous extensions of bi-holomorphisms and complex geodesics. (Received September 11, 2015)