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Andrew Zimmer* (amzimmer@lsu.edu). *Two boundary rigidity results for holomorphic maps.*

In this talk I will discuss two boundary versions of the Schwarz lemma. The first is for general holomorphic self maps of bounded convex domains with C^2 boundary. The second is for biholomorphisms of domains who have an invariant Kähler metric with bounded sectional curvature. The proof of the first relies on some new results about the boundary values of complex geodesics. The proof of the second uses many ideas from Riemannian Geometry: the geodesic flow, deforming metrics using the Ricci flow, injectivity radius estimates, etc. (Received January 26, 2019)