

The University of Chicago
ALGEBRAIC GEOMETRY SEMINAR

Wednesday, February 4th, 2015
4:30 – 6:00 pm, Eckhart 312

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**Boundary behavior of strata of holomorphic
one-forms**

Consider the stratum of holomorphic one-forms on Riemann surfaces that have a fixed number of zeros and multiplicities. They define flat structures that can realize the underlying surfaces as plane polygons of similar type. In this talk, I will report some recent results on the degeneration of holomorphic one-forms in a stratum when the underlying Riemann surfaces become nodal, with a focus on the interplay between algebraic geometry and flat geometry.