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Tao Chen and **Yunping Jiang*** (yunping.jiang@qc.cuny.edu), Department of Mathematics, 65-30 Kissena Blvd, Flushing, NY 11367, and **Linda Keen**. *Bounded Geometry and Characterization of Some Holomorphic Transcendental Dynamical Systems*. Preliminary report.

Thurston started an iteration scheme on the Teichmuller space associated with a post-critically finite topological branched covering of the Riemann sphere. Using this iteration scheme, the characterization of a rational dynamical system can be described topologically and geometrically. In this talk, I will talk about our recent work on the characterization of some holomorphic transcendental dynamical systems following Thurston's iteration scheme and bounded geometry. A topological constrain appears as a new topological invariant. By using this new topological invariant and the bounded geometry, we give a characterization of some holomorphic transcendental dynamical systems. We will also connect the bounded geometry condition and this topological invariant with some topological condition. (Received September 09, 2014)