1126-57-119   **Ellie Dannenberg*** (`edanne2@uic.edu`), University of Illinois at Chicago, Mathematics & Comp Sci MC 249, 851 S Morgan St, Chicago, IL 60607. *Circle Packings on Complex Projective Surfaces.*

The classical circle packing theorem of Koebe, Andreev, and Thurston says that given a triangulation τ of a closed, orientable surface, there is a unique constant curvature metric on the surface so that the surface with this metric admits a circle packing with dual graph τ. Circles are also key objects in studying complex projective surfaces. Kojima, Mizushima, and Tan give a definition of a circle packing on such a surface. Unlike in the metric case, there is a deformation space of complex projective circle packings with combinatorics given by τ. This space is parametrized by cross ratio type coordinates. Kojima, Mizushima, and Tan describe this space in the case where τ has 1 vertex. I expand some of their results to classes of higher vertex triangulations. (Received January 08, 2017)

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