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Hideki Miyachi* (miyachi@math.sci.osaka-u.ac.jp), Department of Mathematics, Osaka University, Machikaneyama 1-1, Toyonaka, Osaka 560-0043, Japan. *Deformation of singular flat structures from quadratic differentials and Riemann surfaces.*

Singular flat structures are defined by composing polygonal tiles under gluing operations by Euclidean isometries, and piecewise affine deformations of singular flat structures induces quasiconformal deformations of the underlying conformal structures. In this talk, I would like to a description of the infinitesimal deformations of conformal stuctures on the underlying Riemann surfaces in deforming singular flat structures from generic quadratic differentials under infinitesimal piecewise affine deformations. (Received March 11, 2017)