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**Nishan Chatterjee\*** (nchatterjee@gradcenter.cuny.edu), 365 Fifth Avenue, New York, NY 10016, and **Yunping Jiang** and **Sudeb Mitra**. *Some metric properties of Teichmüller space of a closed set in the sphere.*

Let  $E$  be a closed set in the Riemann sphere. We discuss several metric properties of the Teichmüller space of  $E$ , denoted by  $T(E)$ . In particular, we extend Earle's form of Teichmüller contraction to  $T(E)$ , and discuss the properties of holomorphic maps from the open unit disk to  $T(E)$ . Finally, we discuss a generalization of Earle's form of Schwarz's lemma to  $T(E)$ . If time permits, we will talk about complex geodesics on  $T(E)$ . (Received January 28, 2016)