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Yahya Almalki* (yaa09d@my.fsu.edu), Department of Mathematics, Florida State University, Tallahassee, FL 32304. *Representations Varieties and Teichmüller Spaces of non-Orientable Surfaces.*

We study some basic properties of the Teichmüller Spaces of non-Orientable Klein Surfaces. We study the methods of Seppälä-Sorvali using multipliers of Möbius transformations. To extend their work to the non-orientable case, we study the methods of representation and character varieties of the fundamental groups of these surfaces. (Received September 24, 2012)