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Frederick P Gardiner and **Nikola Lakic*** (nikola.lakic@lehman.cuny.edu). *A planar Riemann surface coming from the side identifications on a rectangular domain.*

We study the maps on a rectangular domain with side identifications chosen so the maps are well defined, yielding a planar Riemann surface with a double cover and a corresponding quadratic differential. The critical horizontal and vertical trajectories of this quadratic differential approach tangentially the point at infinity. (Received February 22, 2005)