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Young-Eun Choi* (choiye@psu.edu), Penn State Altoona, 3000 Ivyside Park, Altoona, PA 16601, and **Kasra Rafi** (rafi@math.uconn.edu), Department of Mathematics, 196 Auditorium Road, U3009, Storrs, CT 06269. *Grafting lines fellow travel Teichmuller geodesics*. Preliminary report.

Given a measured geodesic lamination L on a hyperbolic surface S , grafting the surface along tL ($t > 0$) defines a 1-parameter family $F(t, L, S)$ of conformal structures in the Teichmuller space of S . We show that there is a Teichmuller geodesic ray $G(t)$ which stays a bounded distance from $F(t, L, S)$ and whose distance to $F(t, L, S)$ goes to zero as t goes to infinity. (Received September 04, 2006)