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Bloomington, IN 47401. *Holomorphic versus hyperbolic twisting.*

Near a point of the frontier of the moduli space of Riemann surfaces there are two well-known sets of ‘polar coordinates’. One is defined by the holomorphic structure and is determined by the ‘plumbing a node’ construction. The other is defined by the hyperbolic structure and is due to Fenchel and Nielsen. For a long time, it has been known that near the frontier, the ‘radial coordinates’ asymptotically agree. This work shows that the ‘angular’ coordinates also asymptotically agree. (Received September 13, 2012)