

Neck-pinching of $\mathbb{C}P^1$ -structures

S. Baba
(University of Heidelberg)

We consider a diverging one-parameter family of marked $\mathbb{C}P^1$ -structures such that their holonomy representations converge in the $\mathrm{PSL}(2, \mathbb{C})$ -character variety.

Under the assumption that the conformal structures of the $\mathbb{C}P^1$ -structures are "pinched" along the union of disjoint loops, we show that the $\mathbb{C}P^1$ -structures converge to a noded $\mathbb{C}P^1$ -structure.