

1164-57-106

Hugo Parlier* (hugo.parlier@gmail.com), University of Luxembourg, L-4364 Esch sur Alzette, Luxembourg. *Where the orthogeodesics roam.*

The lengths of geodesics on hyperbolic surfaces satisfy intriguing equations, known as identities, relating these lengths to geometric quantities of the surface. The talk will be about a family of identities that relate lengths of closed geodesics and orthogeodesics to boundary lengths or the number of cusps including, as particular cases, identities due to Basmajian, to McShane and to Mirzakhani and Tan-Wong-Zhang. (Received January 15, 2021)