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Francisco Arana-Herrera* (farana@stanford.edu), Stanford University. *Effective countings of filling closed geodesics on hyperbolic surfaces*. Preliminary report.

This talk concerns work in progress. We will discuss new methods that provide quantitative estimates with power saving error terms for countings of filling closed geodesics on hyperbolic surfaces. These estimates complement recent theorems of Eskin, Mirzakhani, and Mohammadi for countings of simple closed geodesics, effectivize asymptotic counting results of Mirzakhani, Erlandsson, and Souto, and partially solve an open problem introduced by Wright. (Received March 06, 2021)