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Rosemary K Guzman* (rguzma1@illinois.edu). *On a paradoxical-type decomposition of Culler-Shalen of a Patterson-Sullivan measure for Kleinian groups.*

In this talk, we will review a technique of Culler and Shalen which relates the combinatorial structure of a free group to its action on its limit set. The construction was used to prove their $\log(3)$ -Theorem, but is intriguing on its own. In particular, we look at certain isometries of hyperbolic space, which act as Mobius transformation on the sphere at infinity. (Received September 26, 2017)