Abstract Submitted for the APR17 Meeting of The American Physical Society

Black hole entropy from conformal symmetry on the horizon¹ STEVEN CARLIP, UC Davis — The idea that black hole entropy might be governed by a conformal symmetry is an old one, but until now most efforts have focused on either asymptotic symmetries or symmetries on a "stretched horizon. For two-dimensional dilaton gravity, I show the existence of a well-behaved conformal symmetry that is *on* the horizon, with a central charge that correctly determines the black hole entropy.

¹Supported by Department of Energy grant DE-FG02-91ER40674.

Steven Carlip UC Davis

Date submitted: 29 Sep 2016

Electronic form version 1.4