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*Boundaries of relatively hyperbolic groups under Dehn filling.*

We begin an investigation into the behavior of Bowitch and Gromov boundaries under the operation of Dehn filling. In particular, we show many Dehn fillings of a toral relatively hyperbolic group with 2-sphere boundary are hyperbolic with 2-sphere boundary. As an application, we show that the Cannon Conjecture implies a relatively hyperbolic version of the Cannon Conjecture. (Received September 14, 2017)