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Oliver Wang. *Cohomology of Bowditch boundaries*.

A relatively hyperbolic group pair has a boundary at infinity called the Bowditch boundary. For a geometrically finite Kleinian group with peripheral structure given by the maximal parabolics, this boundary coincides with the limit set. We show that the cohomology of this boundary can be described entirely group theoretically, generalizing work of Bestvina-Mess and M. Kapovich. In the case of a Poincare duality pair, we show the boundary is a homology manifold. (Received February 10, 2018)