1138-20-25   **Bena Tshishiku*** (`tshishikub@gmail.com`) and **Genevieve Walsh**. *Relatively hyperbolic groups with boundary a 2-sphere.*

Bestvina-Mess showed that the duality properties of a group G are encoded in any boundary that gives a Z-set compactification of G; for example, a hyperbolic group with Gromov boundary an n-sphere is a PD$(n+1)$ group. For relatively hyperbolic pairs (G, P), the natural boundary – the Bowditch boundary – does not give a Z-set compactification of G. Nevertheless we show that if the Bowditch boundary of (G, P) is a 2-sphere, then (G, P) is a PD(3) pair. This is joint work with Genevieve Walsh. (Received January 09, 2018)