# Topology of the Gromov boundary of free product of hyperbolic groups

Jacek Świątkowski

Abstract: It is clear that Gromov boundary $\partial(G * H)$ of the free product of hyperbolic groups $G$ and $H$ is, up to homeomorphism, some combination of the topological spaces $\partial G$ and $\partial H$. However, it is much less clear if this combination depends uniquely on the spaces $\partial G$ and $\partial H$, and not on groups $G$ and $H$. We will show that the latter is true, and describe an explicit functorial construction which yields $\partial(G * H)$ out of $\partial G$ and $\partial H$ (and does not refer to $G$ and $H$). Joint work with Alexandre Martin.