

---

**OWEN BAKER**, McMaster University  
*Cannon–Thurston maps do not always exist*

Given an embedding of hyperbolic groups  $\iota : H \hookrightarrow G$ , one can seek to define a map between the Gromov boundaries  $\hat{\iota} : \partial H \rightarrow \partial G$  by

$$\hat{\iota}(\lim h_n) = \lim \iota(h_n).$$

When  $\hat{\iota}$  is well-defined, it is called the Cannon-Thurston map. I will construct an example where  $\hat{\iota}$  fails to be well-defined, answering a question of Mitra. This is joint work with Tim Riley.