

## IV. Where does the small black hole flow ...

... when perturbed by its G-PY mode?

- We addressed this question by numerically simulating the Ricci flow.
- The mode can be added with either sign, so there are two different flows to follow.
- We simulated both flows at various values of  $b$ , finding no qualitative differences in their behavior. (Diagrams show  $b = b_{HP}$ .)
- Although we didn't simulate the analogous systems with  $\Lambda < 0$  or  $D > 4$ , it seems likely that they would also exhibit the same qualitative behavior.