

We Could Be Inside a Black Hole Right Now – Adam Brown

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SUMMARY

The discussion explores the nature of black holes, particularly focusing on the experience of crossing the event horizon and the effects of tidal forces. It highlights that while entering a large black hole may not be immediately harmful, the ultimate fate is sealed once one approaches the singularity.

- You could be inside a large black hole without realizing it.*
- The event horizon is not violent for large black holes; tidal forces are manageable.*
- For smaller black holes, tidal forces can be extreme, leading to a painful experience known as "spaghettification."*
- Crossing the event horizon means you are doomed, but not dead until reaching the singularity.*
- In a large black hole, one could live a normal life and have descendants before facing fatal tidal forces.*
- The experience of entering a black hole varies significantly based on its size.*

So, in principle, you could be in a large enough black hole, you wouldn't know. We could be in a black hole right now. The event horizon is not a particularly violent place for you. You can calculate the tidal forces, and they're not particularly big. Or rather, for large black holes, they're not particularly big. For a solar mass black hole, they would be pretty big, and it would be pretty painful for you. You'd find that your feet are being attracted to the black hole much more vigorously than your head is, cuz they're closer, and you end up getting stretched. But if I take a big enough black hole, you wouldn't notice anything funny happening whatsoever. When you cross the event horizon, you are doomed. You are doomed, but you are not dead. you are only for sure dead once you hit the singularity and get spaghettified, get mangled by the by the tidal forces. But for a large enough black hole, you can be doomed and not even know it.

You could live out your life, you could have descendants, all of whom live inside the black hole, and only once you really approach the singularity do the tidal forces get strong and kill you.