

## **Ask A Genius 43 - Informational Cosmology 19**

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**Scott: Why blackish hole rather than black hole?**

Rick: Most galaxies have a huge friggin' blackish hole at the center. Big Bang physics says black hole, which is just a thing which has so much matter in so small a space that even light can't escape. It doesn't have more suck power than something of similar mass, but large diameter.

But anything sucked in is not getting out because it would have to move faster than the speed of light to get out. It is a super suck thing if you happen to fall into it. Under IC information processing view, even though black holes are the ultimate suck things, Hawking showed that stuff can still escape, kind of, through Hawking radiation.

It is where a black hole exerts so much force on space or tension that the tension can be relieved by turning some of that tension into matter, where something right on the horizon of the black hole.

The space on the horizon of the black hole can get pulled in half, into a couple particles. One of which escapes the black hole and the other is sucked into it – like a snapping rubber band, like - ba-ding! It hauls ass away from the black hole.

It reduces the black hole's mass until eventually over ridiculous amounts of time, which can include quadrillions and quintillions of years, a black hole could evaporate via particles created by the tension that the black hole exerts on space because the tension contains energy.

Even a Hawking black hole is only blackish, it is not fully black because stuff can't escape because in a crazy event horizon, or some horizon, creation. Where else would it be? Under IC, black holes are even less black and more blackish.

In that, the gravitational, extreme gravitational, field that the black hole exerts on itself and surrounding space under IC is a collaboration between the black hole and surrounding space. Some aspects of black holes' extreme gravitational force are attenuated because the black hole itself has pulled itself out of the affairs by having a lot of interactions just with itself.

You could view the blackishness, the degree of blackness of a black hole, is a measure of the ratio of physical interactions just within the black hole, and those physical interactions going on between the black hole and the rest of the universe.

Since it is a ratio of a finite physical interactions inside of the black hole and a finite physical set of interactions outside of the black hole, that guarantees you'll never get the number needed to get to the infinity. That's why blackish rather than black hole.

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