



Black Hole Solar Power Generation

Could a tiny black hole produce astronomical energy?

A tiny black hole could produce an astronomical amount of energy (Photo Credits: Pixabay) To be suitable, this black hole would have to be small enough to expel a significant amount of radiation, yet large enough that it does not immediately vaporize.

How much energy can a micro black hole battery provide?

Haug and Spavieri estimate that a micro black hole battery weighing just one kilogram could provide "enough energy for a family for generations" - approximately 470 million times the energy of the most efficient 200-kilogram lithium battery that currently exists.

Could energy be stored in a black hole?

DOI: 10.1103/PhysRevD.108.104066 The second possibility would involve retrieving energy stored in the form of particle pairs that form in the presence of an electric field. Prior research has shown that an electric field exists around the event horizon of black holes, some of which are strong enough to create both electrons and positrons.

Can a black hole recharge energy?

The researchers do not delve into the physical means involved in harvesting energy from a black hole, or estimate how long it might take to develop the technology to carry out such a difficult task. But they calculate that such engineering could have a recharging efficiency of approximately 25%.

How can we extract energy from a black hole?

We can extract this energy by threading magnetic filled lines through the black hole. The swirl of space swirls the magnetic fields, and this swirl creates current (I'm not sure of the exact treatment of this, classically it would be some form of electromagnetic induction, but this isn't classical physics.).

Could Astro-engineers 'charge' a black hole?

The first option suggests future astro-engineers could "charge" a primordial black hole (a very small black hole with no spin that formed soon after the Big Bang) by feeding it electrically charged particles until the black hole begins to repel them, signaling it is fully charged, like a battery.

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