

One black hole several solar power generation

What is a massive black hole?

Nature Reviews Physics 3, 732-743 (2021) Cite this article Massive black holes (MBHs) inhabit galactic centres, and power luminous quasars and active galactic nuclei, shaping their cosmic environment with the energy they produce.

How would a black hole power plant work?

A black hole power plant (BHPP) is something I'll define here as a machine that uses a black hole to convert mass into energy for useful work. As such, it constitutes the 3rd kind of matter-energy power (formerly "nuclear power") humans have entertained, the first two being fission and fusion.

Where did black holes come from?

The origin of the massive black holes (MBHs) embedded in the centre of most galaxies is still unconstrained. They must have grown from seeds-- that is, black holes of unknown mass, but realistically from a few hundred to about a million solar masses.

What are black hole jets?

Video: At the heart of every galaxy lies one of the most mysterious objects in the universe: a supermassive black hole. Millions to billions of times the mass of our sun, these giants power astrophysical jets, one of the most energetic processes known to physics. There's more to figure out about black hole jets and their role in the cosmos.

How do black holes get their power?

Inset: A close-up of the black hole and its accretion disk. Active black holes acquire their power by gradually accreting- or "feeding" on - million-degree gas stored in a vast surrounding disk.

Are massive black holes ubiquitous?

The discoveries of quasars at cosmic distances and of giant dark massive objects in today's galaxies provide evidence of the ubiquity of massive black holes (MBHs). Understanding the origins of MBHs goes hand in hand with understanding the origins of the structures inside the cosmic web.



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