

What is new in black hole jets?

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One of the leading mechanisms powering relativistic black hole jets is the Blandford–Znajek (BZ) process. Inspired by its success we constructed energy extracting models for black holes in five space-time dimensions. In this talk an overview will be given of recently discovered set of solutions to the force-free electrodynamic equations representing plasma-magnetospheres for slowly rotating Myers-Perry black holes. Comparisons of the main features of the five-dimensional BZ models with lower four-dimensional counterparts will also be discussed.

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