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The correspondence between rotating black holes and fundamental strings

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The correspondence between black holes and degenerate states of fundamental strings becomes puzzling when attempting to include rotation: At large enough spins, there exist degenerate string states that seemingly cannot be matched to any black hole. Conversely, there exist black holes with arbitrarily large spins that cannot correspond to any single-string state. I will discuss work (to appear) with Ceplak, Puhm and Tomasevic, where we address these problems.

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