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Black-hole (and other) dark matter

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Following the announcement in March 2018 of the discovery of the first gravitational-wave signal from a black-hole-binary merger, it was suggested that ~ 30 -solar-mass black holes could make up the dark matter. Since then, a number of astrophysical probes or constraints to the scenario have been discussed. I will summarize these constraints and identify associated caveats for some as well as those that I believe are more robust. I will also briefly discuss some other recent work related to non-black-hole dark matter.

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