

Double black hole 3C 434.3 and powerful gravitational wave radiation

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Estimates of the level of gravitational wave (GW) coming from 3C 454.3 show that 3C 454.3 is currently the most powerful GW emitter. Based on the obtained data, we consider the characteristics of the gravitational radiation of this system, as well as the lifetime before merging, and possible variations in companion orbits. Due to the constant presence of companions in a dense inhomogeneous AD environment, the role of dynamic friction increases for dynamics of all system. In the first of all that connection with the process of calculate of the GWs level radiation, which increase in that case. This situation allows us to suggests for an increase in the probability of detecting GWs radiating from 3C 454.3.

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