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The unusually high activity of supermassive black holes is as-associated with their close binarity

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The data of the last 60 years on the programs of long-term multi-frequency monitoring of active galactic nuclei 3C 273 are analyzed. A model is proposed for finding the parameters of close binary systems from supermassive black holes.

It has been established that 3C 273 can be a very massive binary system at the stage of evolution close to merging. Based on the obtained parameters, the characteristics of the gravitational radiation of this system, their lifetime before the merger, as well as the possible observation of 3C 273 using gravitational wave detectors considered.

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