

Observing Strategy for Electromagnetic Follow-up of Gravitational-Wave Events

mardi 21 novembre 2023 10:50 (20 minutes)

In the realm of multi-messenger astronomy (MMA), Implementing an optimal observing strategy to follow electromagnetic (EM) counterparts across the network observatories is a crucial factor to achieve successful observations. By employing the Multi Order Coverage (MOC) data structure and ranking methods, we present an observing strategy in the context of the GECKOrchester tool. The performance of this strategy is evaluated through its application at the Korean network observatory for ongoing and future observing runs of the Advanced LIGO, Advanced Virgo, and KAGRA collaboration.

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Classification de Session: Contributed talks