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## Search for neutrino emission from Microquasars with KM3NeT/ORCA detector

Microquasars are galactic binary systems that exhibit relativistic jets whose composition remains uncertain. If protons are present in situ, neutrino production becomes possible. The relative proximity of these systems and the evidence of their high-energy emissions documented in the literature make neutrinos good candidates for addressing the question of jet composition and identifying microquasars as galactic cosmic ray accelerators.

KM3NeT/ORCA is a neutrino telescope capable of detecting such neutrinos in the GeV to multi-TeV energy range. Located at the bottom of the Mediterranean Sea near La Seyne-sur-Mer, France, it began data collection in early 2020 and will continue throughout its construction until it reaches full detection capability.

This study uses the full KM3NeT/ORCA dataset to look for neutrino emission from microquasars. The analysis focuses on outburst periods to reduce the atmospheric background, leveraging wavelength observations, and employs machine-learning techniques to filter out likely atmospheric events. Finally, the results are compared with theoretical expected fluxes and other neutrino experiments' upper limits.

## Contribution

Oral talk

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