



Contribution ID : 36

Type : Oral

Constraining the spectral-type of the the GRS 1758-258 optical counterpart

GRS 1758-258 is a prototypical microquasar near the Galactic Center whose non-degenerate optical counterpart was believed to be a late-type giant star. The system has remained poorly studied at optical wavelengths because it is very faint and strongly absorbed. In this work, we present the results of long-slit spectroscopy at low resolution with a 10 m class telescope (GRANTECAN). Details and implications will be presented. The optical counterpart of GRS 1758-258 appears to be consistent with a mid-A main sequence star, and we tentatively suggest a possible connection of this system with the category of intermediate-mass X-ray binaries.

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Track Classification : HAP Workshop