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Física

ID de la contribución : 200

Tipo : no especificado

Discovery of a binary AGN in Mrk 622

martes, 18 de julio de 2017 15:15 (25)

Mrk622 is a double-peaked narrow emission line galaxy and a dual AGN candidate. New optical long-slit spectroscopic observations clearly show the existence of three spatially separated narrow components in their emission lines, two of them blue and red-shifted respectively with respect to a third one that is found to be at the systemic velocity. The velocity offset between the blue-shifted and the red-shifted components is $\sim 500 \text{ km s}^{-1}$, and is responsible of the double-peak emission lines. We show that the blue and red-shifted components are produced by two individual AGN. The third systemic component is however a star-bursting galaxy located in the inter AGN region. We thus claim that Mrk 622 is an unresolved, spectroscopically confirmed binary AGN, that harbour a dwarf galaxy in between the pair of AGN.

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Clasificación de la sesión : Astrophysics II

Clasificación de temáticas : Astrophysics