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Sesión Científica: Galaxias y cosmología

Título: Plasma instability in the relativistic flow of 0836+710

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Resumen:

Space VLBI observations with RadioAstron provide an extraordinary improvement of angular resolution. In this talk, I will present the results obtained from RadioAstron imaging of the relativistic jet in the quasar 0836+710 at L, C, and K bands. The images of 0836+710 show a wealth of structure on scales ranging from 0.2 to 150 milliarcseconds, which enables a detailed study of shocks and plasma instability development in the flow. The instability present in the jet will be discussed using the jet ridge lines and their modelling, which will determine the different modes present on the jet. This also allows the determination of different jet physical parameters.