



Avviso di Seminario

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THE INVISIBLE TROUBLEMAKER: THE INFLUENCE OF THE SUN ON COMPACT RADIO SOURCES

At centimeter wavelengths compact radio sources are often characterised by significant flux-density variations on timescales from few hours (in the most extreme cases) to years. Variability studies typically treat these variations as intrinsic to the sources, attributing though to interstellar scintillation a role substantially more important as the observing wavelength increases. No attention is generally paid to possible local effects, such as interplanetary scintillation (IPS). In this talk, I will present evidence showing how important can be the Solar contribution to the variability of AGNs at radio wavelengths. Observations performed at the 25m-Urumqi radio telescope, the VLA, and the GBI, all confirm the existence of flux-density variations correlated to the change in solar elongation of the observed sources. The impact of these recursive patterns on some highly variable sources, such as BLLac, still needs to be determined more precisely.

Il Direttore
Maurizio Maria Busso