

The local radio environment of fast radio bursts and their progenitor implications

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Fast Radio Bursts (FRBs) are millisecond-duration transient sources of intense, coherent radiation originating in distant galaxies that are signposts of extreme astronomical environments. Telescopes all over the world are used to conduct searches for FRBs, localise them, and study their host galaxy and local environment. The European VLBI Network in particular is a prime instrument to study the radio environment of FRB sources in their host galaxies at milli-arcsecond scales. Such VLBI observations are needed to characterise the nature of radio emission caused by star formation or a compact persistent radio source (PRS), as well as to constrain the size of any radio nebulae. In this talk, I will present radio observations of the local environment of repeating and non-repeating FRBs, as well as the implications for FRB progenitor models.

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