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The FRB-magnetar connection in nearby galaxies

During this presentation I will present recent advancements on the study of fast radio bursts (FRBs) –short, energetic radio flashes of extragalactic origin, with typical durations of a millisecond –through low frequency observations conducted with the Northern Cross radio telescope. In particular, I will show how long-term radio monitoring of a sample of nearby galaxies can help investigate the FRB–magnetar connection. In fact, although magnetars are the most invoked progenitors of FRBs, it is not clear which fraction of the FRB population can be linked to magnetars born through the, core-collapse supernova channel, i.e. similar to the ones observed in our galaxy.

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