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Fast radio bursts as gravitationally lensed events in neutron star magnetospheres

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Fast Radio Bursts (FRBs) have, since their first detection, ranked among the most puzzling events in the sky owing to the extreme energies involved and the presence of both repeating and non-repeating sources: 15 years and thousands of bursts later, their emission mechanism still eludes us. I will present a new unified model for FRBs as magnetospheric events from neutron stars which naturally accounts for both types of behaviours, and show the good agreement of the model with the expected energy/fluence and redshift distributions, both for the population at large and individual, well-studied sources.

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