

APR20-2020-020225

Abstract for an Invited Paper
for the APR20 Meeting of
the American Physical Society

FRBs and Neutron Stars

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Cosmological fast radio bursts (FRBs) have ultra-high luminosities (billion times brighter than the sun) and short (millisecond) durations. Their origin is not established. A popular scenario invokes magnetized neutron stars as FRB engines. This talk will discuss FRB physics in this scenario and some general questions regarding propagation of ultra-strong electromagnetic waves through plasma.