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Search for the stochastic axion dark matter signal with the pulsar polarization array

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Pulsar polarization arrays have the potential to probe the axion photon coupling up to $\sim 10^{-14} - 10^{-17}$, with a mass range $\sim 10^{-27} - 10^{-21}$ eV. In this work, we will present the result of using the cross-correlation method to search for the stochastic axion dark matter signal in the Parkes Pulsar Timing Array data.

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