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Gamma pta with 5@5

In this work we investigate the potential of Pulsar time array study using imaging air Cherenkov telescopes (IACTs). We simulated the detected photons from pulsars using the response of hypothetical low threshold IACTs taking into account of the cosmic ray (CR) backgrounds and timing profile. We then analyzed the timing property of the simulated data in analog to the PTA studies using Fermi LAT data. We found that, thanks to the higher photon statistics of IACTs, the PTA using IACTs can improve significantly the performance compared with the PTA using Fermi LAT data.

Summary

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