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Do pulsar and Fast Radio Burst dispersion measures obey Benford's law?

We check if the first significant digit of the dispersion measure of pulsars and Fast Radio Bursts (using the CHIME catalog) is consistent with the Benford distribution. We find a large disagreement with Benford's law with χ^2 close to 80 for 8 degrees of freedom for both these aforementioned datasets. This corresponds to a discrepancy of about 7. Therefore, we conclude that the dispersion measures of pulsars and FRBs do not obey Benford's law.

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