Properties of a hypothetical cold pulsar wind in LS 5039
(Corrigendum)

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Unfortunately, Eq. (10) in Bosch-Ramon (2021) was incorrectly written. However, the calculations presented in the paper were performed with the correct (approximated) expression for that angle, which is:

\[ \tau \approx \left(1 + \eta^{1/2}\right) \frac{\omega_{\text{orb}} R_{\text{orb}}}{|u_w|}, \]

where $|u_w|$ is the modulus of the stellar wind velocity vector in the orbit-rotating frame, $\omega_{\text{orb}}$ the pulsar orbital angular velocity, $R_{\text{orb}}$ the orbital separation distance, and $\eta$ the pulsar-to-star wind momentum rate ratio.

References

Bosch-Ramon, V. 2021, A&A, 645, A86