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Revisiting the Rotation Period of NGC 1624-2

NGC 1642-2 hosts the strongest magnetic field ever measured on an O-star (20 kG polar), which exceeds the others by an order of magnitude. The first measurement of its rotational period was reported to be 157.99d, but it is now evident that this period does not accurately phase-fold recently-acquired observations. In this talk, we will provide an overview of our work remeasuring the rotational period of NGC 1624-2. To remeasure the period, we apply Lomb Scargle and Phase Dispersion Minimization periodogram analyses to time-varying spectral lines. The periods do not all achieve statistical agreement. However, all of our significant periods are within ~ 152d and 154d, which in all demonstrates that the period is shorter than previously found. We discuss the impacts of our results on the phase-folding of the various observations. This includes the impacts on the UV observations from David-Uraz et al(2021) that exhibited similar complications with phasing.