Abstract Submitted
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Blazhko Effect in a Newly Discovered and a Known RR Lyrae Star MATTHEW MELENDEZ, RICHARD OLENICK, ARTHUR SWEENEY, THADDEUS HOWARD, NICK HEDLESKY, ANTHONY KERSTING, University of Dallas — Studies of RR Lyrae stars provide insight into the pulsation processes of variable stars. Several RR Lyrae stars were observed in a wide angle search for extrasolar planets in the boundary between Hercules and Lyra. We present observations of a newly observed RR Lyrae star, USNO-B1.0 1138-0264690, as well as a new perspective on a known RR Lyrae Star, LW Her. Variations in the period and amplitude of RR Lyrae stars, known as the Blazhko effect, were observed found in these stars. The data, analysis, and preliminary dynamical systems modeling of the Blazhko effect in these stars will be presented.

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