

Abstract Submitted
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Observations of Oscillatory Behavior in the Corona¹ BRANDON CALABRO, R.T. JAMES MCATEER, New Mexico State University, SHAUN BLOOMFIELD, Trinity College Dublin, SOLAR PHYSICS GROUP TEAM² — The solar corona is millions of degrees hotter than that of the surface of the Sun and we do not know why. We attempt to resolve this long standing coronal heating problem by looking at how waves transport energy to the corona. In each region studied the 3-minute periodicity is more frequent than the 5- minute periodicity. The number of pixels exhibiting the 3- minute periodicity is between 10% - 20% and those pixels exhibiting 5- minute periodicity is between 3% - 7% of the total number of pixels observed. Our results show 3- minute oscillations along coronal loop structures but do not show 5- minute oscillations along these same loop structures. The variation in the number of pixels exhibiting 3- and 5- minute periodicity is roughly the same across all regions observed leading us to infer that the 3- and 5-minute oscillation is the result of a global mechanism.

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