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Analysis of The Magnetic CV IGR J15038−6021 (12+3)

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IGR J15038−6021 is a Galactic X-ray source known to have an iron emission line and a hard X-ray spectrum. Here, we report on X-ray observations of the source withXMM-Newton and NuSTAR. Timing analysis of the XMM data shows a significant detection of 1646s period. The signal has a pulsed fraction of 22 in the 0.3−12 keV range. The X-ray spectrum is consistent with the continuum emission mechanism being due to thermal Bremsstrahlung, but partial covering absorption and reflection are also required. In addition, we use the IP mass (IPM) model, which suggests that the white dwarf in this system has a high mass, possibly approaching the Chandrasekhar limit.

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