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Title:	Thermonuclear X-ray bursts in rapid succession in 4U 1636–536 with AstroSat-LAXPC
Authors:	Beri, A. (/jspui/browse?type=author&value=Beri%2C+A.)
Keywords:	Accretion Accretion discs Stars: neutron
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Citation:	Monthly Notices of the Royal Astronomical Society, 482(4),pp. 4397–4407.
Abstract:	We present results from an observation of the low-mass X-ray binary 4U 1636–536 obtained with the LAXPC instrument aboard AstroSat. The observations of 4U 1636–536 made during the performance verification phase of AstroSat showed seven thermonuclear X-ray bursts in a total exposure of ~65 ks over a period of about two consecutive days. Moreover, the light curve of 4U 1636–536 revealed the presence of a rare triplet of X-ray bursts, having a wait time of about 5.5 min between the second and the third bursts. We also present results from time-resolved spectroscopy performed during these seven X-ray bursts. In addition, we have also detected a transient quasi-periodic oscillation at ~5 Hz. However, we did not find any evidence of kilo-hertz quasi-periodic oscillations and/or X-ray burst oscillations, perhaps due to the hard spectral state of the source during this observation.
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