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First superburst observed by INTEGRAL/JEM-X

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Note: On February 13, 2011, the X-ray monitor JEM-X onboard INTEGRAL observed for the first time a superburst, which occurred from the Galactic bulge low mass X-ray binary SAX J1747.0-2853. This event is also noticeable in light-curves from the MAXI all-sky monitor onboard the International Space Station. Three days earlier, a flare at GeV energy was detected by the Fermi/LAT instrument from a position consistent with SAX J1747.0-2853, marking the beginning of a new outburst from this transient X-ray source. This talk will present the JEM-X data, showing that the superburst is immediately preceded by a 30 minute long burst. This exceptional sequence of events makes this first superburst ever observed from SAX J1747.0-2853 a very peculiar one. In particular, we will discuss the possibility for the intermediate long burst to act as a firestarter for the superburst.