

Optical spectroscopic follow-up of the V0332+53 outburst

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ABSTRACT

We report the optical spectroscopic follow-ups of the outburst of Be/X-ray pulsar V0332+53. The outbursts from V0332+53 were reported by Swift/BAT (Krimm et al 2009) and MAXI/GSC (Nakahira et al 2010). Our spectroscopic observations were started at Jan. 28, 2010 using the Hiyoyu/Lulin (Taiwan), BOES/BOAO (Korea) and KOOLS/OAO (Japan). Totally four epochs observations were made. The observation using the KOOLS at OAO was simultaneous observation with the Suzaku ToO. The equivalent width of the observed H-alpha line is significantly larger than those of typical quiescent phase, and similar to the previous burst phases except of the outburst in 2008. Combination with MAXI light curve, we discuss the X-ray pulsar/Be star binary system.