XMM-NEWTON OBSERVATION OF THE VELA PULSAR

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We present the results from 90 ksec observation of the Vela pulsar with XMM-Newton. We put emphasis on studying emission from the pulsar. Based on highly-sensitive data, we conducted the following analysis: (1) high resolution spectroscopy by RGS in search for atmospheric spectral features (2) phase-resolved spectral analysis and energy-resolved timing analysis by EPIC-PN. We will discuss implications from the results.