

粒子天体物理与宇宙学

Prospective results of CHANG'E-2 X-ray spectrometer

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摘要

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The Chinese second lunar satellite CE-2, which carries an X-ray spectrometer (XRS), will be launched at the end of 2010. In order to estimate the scientific results of XRS, we simulate the anticipated lunar X-ray spectra observed by XRS by using the expected mean solar X-ray flux in 2011. We also obtain the integration time and the spatial resolution required to achieve a certain significance level for the major lunar rock-forming elements in different solar activity conditions. It is expected that a spatial resolution of finer than 100 kilometers can be achieved for elements Mg, Al, Si, Ca, Ti, and Fe.

关键词

[moon, X-ray fluorescence, solar cycle](#)

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