

Development of Multi-Layer Grating for Extreme Ultra-Violet Spectrograph.

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To research the population and changes of the dissipation quantity of neutral atoms and ions from Planet we develop the imaging optical system to detect the resonance scattered lights of He I 30.4nm, He II 58.4nm, O II 83.4nm and etc, and have observed ones. However we could not observe only single resonance scattered light, because of non-spectrum optical system.

Therefore observing the plural atoms and ions, we are developing the Multi-Layer Coated Grating for spectrum optical system.

In this presentation, we report the design and production of Multi-Layer Coated Grating and its characteristic of reflectivity.