

Observation of meteor in the thermosphere-ionosphere

*Yuhei Suzuki¹, Soya Ito², Atsuya Sugawara², Syotaro Mino²

1.Miyagi Prefectural Furukawa Reimei Senior High School, 2.Miyagi Prefectural Furukawa Reimei Junior High School

We observed the Perseid Meteor Shower in 2013. It was a chance to capture the colors of the meteor changing in the middle of flashing. We want to research the reason of the change. So we carried out spectroscopic observations. It can identify the element. The data is the Scattered Meteor in 2015. The direction of the meteor became vertically to the dispersed direction. So we could identify the wavelength. It was the wavelength of about 583 nm. Therefore, we thought this spectrum may be sodium (Na/589 nm).

Keywords: meteor, diffraction grating, spectrum

