

## 10 micron band feature of cometary dusts observed by Subaru Telescope

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The COMICS (Cooled Mid Infrared Camera and Spectrometer) has been used from 2000 as one of the frontier instruments for open use at the Subaru telescope. It gives us a powerful tool for imaging and spectroscopic observations ( $R=250\sim 10000$ ) in exceptionally high sensitivity to study the properties of dust particles both in the circumstellar disk of the young stars and in the coma of comets.

We carried out a low spectral observations ( $R=250$ ) of comet C/2002 V1 (NEAT), which was brightening by getting close to the Sun, and of C/2001 RX14 (LINEAR) at 10 micron band on January 10 and 11 (UT). The resultant spectrum of the comet C/2002 V1 (NEAT) shows clear 10 micron silicate feature, together with the crystalline olivine feature peaked at 11.2 micron. Overall feature at this band is well explained by mixture of amorphous olivine/pyroxene and crystalline olivine.

We present the detailed results of our analysis including model fitting, along with the future scope of such observations.