Multiband Optical Observation of P/2010 A2 Dust Tail

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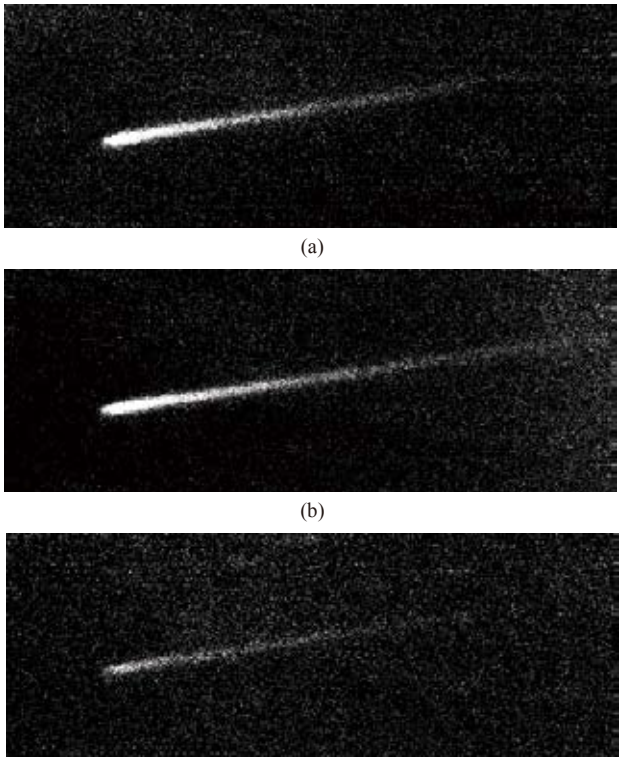
We observed the main-belt asteroid P/2010 A2 dust tail, using Murikabushi 105 cm telescope and MITSuME three-channel simultaneous imaging system at the Ishigakijima Astronomical Observatory.

The analysis of the relative reflectance of the dust tail and the type classification of the asteroid revealed that the reflectance of the P/2010 A2 dust tail resembled that of an Sq-type or C-type asteroid and the spectrum was close to ordinary chondrites [1].



(a)

(b)

(c)

Figure 1: Images of P/2010 A2 dust trail. These are composite image in three different waveband of (a) g'-band, (b) R_c-band, and (c) I_c-band.

Reference

[1] Kim, J., et al.: 2012, *ApJ*, **746**, L11.