

R009-P01

ポスター 2 : 11/5 AM1/AM2 (9:00-12:30)

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The Comet Interceptor mission: JAXA's mission definition review and system requirement review completed

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Comets are pristine small bodies and thus provide key information about the solar system evolution. Remote observations by ground observatories have characterized various comets, while in-situ observations by spacecraft have brought much more detailed information on several comets. However, the direct observations by spacecraft fly-by or rendezvous have been limited to the short-period comets, which neared the sun many times in the past and thus lost some of their primitive characteristics. The Comet Interceptor mission, led by ESA, aims at a long period comet or an interstellar object. JAXA will provide an ultra-small (24 U) daughter spacecraft (probe B1), whose closest approach will be less than 1,000 km, allowing the first-ever multi-spacecraft fly-by observations of a comet. In June 2022, ESA formally adopted Comet Interceptor as the first mission of the Fast class. Subsequently in July 2022, JAXA completed mission definition review and system requirement review, and the team is now referred to as a pre-project in JAXA. Meanwhile several advances have been made in hardware development, and here we will report some details of them.