

## Development of a mercury ion analyzer(MPPE-MIA) on board the MMO satellite

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The knowledge of Mercury is based on limited ground based observations and three fly-by observations which was made by Mariner 10 about 30 years ago. BepiColombo mission consists of two orbiters which are named MPO(Mercury Planetary Orbiter) and MMO(Mercury Magnetspheric Orbiter). MIA(Mercury Ion Analyzer) on board the MMO spacecraft is devoted to investigate ion energy distribution in solar wind and mercury magnetosphere. Sensitivity of the analyzer should be able to be changed since differential ion flux is expected to be large in between solar wind and mercury magnetosphere. We have developed a sensitivity attenuator by using a special electrode into the analyzer. Performance and structure of the attenuator will be presented.