INSTALL A NEW CORONAGRAPH ON ISS

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Korea Astronomy and Space Science Institute (KASI) plans to develop a coronagraph and to install it on the International Space Station (ISS) collaboration with NASA Goddard Space Flight Center (GSFC). This project started 2017 and the coronagraph will be launch on 2021. The main science objective for the mission is (1) Is there evidence for interchange reconnection contributing to the slow solar wind? (2) Is there evidence for closed fields opening up and filling the solar wind with plasma? To estimate these scientific objection, we developed the coronagraph which is externally occulted with a field of view from 3 to $\sim 12$ solar radii ($R_\odot$), simultaneously covering all latitudes. From the observation by using the photometric filter around the 400nm band, we could estimate the 2D electron temperature and electron velocity distribution in the $3R_\odot \sim 12R_\odot$ corona.