



BepiColombo MMO status update

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BepiColombo has been defined as the ESA-JAXA joint mission to Mercury with the aim to understand the process of planetary formation and evolution in the hottest part of the proto-planetary nebula as well as to understand similarities and differences between the magnetospheres of the Mercury and the Earth. The baseline mission consists of two spacecraft: the Mercury Planetary Orbiter (MPO) and the Mercury Magnetospheric Orbiter (MMO). The two orbiters will be launched together on one Ariane5 in 2014. JAXA is responsible for development and operation of MMO. The main objectives of MMO are to study Mercury's magnetic field and plasma environment around Mercury. MMO is designed as a spin-stabilized spacecraft and will be placed in a 400 km x 12000 km polar orbit. EM/MTM/TTM development were finished. MTM test was completed at July 2009. TTM test including 10SC test at ESTEC with/without MOSIF (MMO Sunshield) was completed during 2010. Subsystem level CDR mostly completed during 2010 and System CDR is scheduled on Mar. 2011. Mechanical Interface Check (MIC) / Electrical Interface Check (EIC) for FM will be started from Apr. 2011 and final AIV is scheduled from early 2012.