

2nd Metis Science Meeting



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News on MUSE

It will be reported on the progress of the MUSE NASA mission, with significant ASI-INAF contribution. MUSE will use EUV spectroscopy in 3 single-line bands (FeIX 171A, FeXV 284A, FeXIX 108A) to probe basic magnetic and heating processes in the solar corona. The lines are sensitive to plasma emission at about 1, 2.5 and >8 MK, respectively. Resolving the lines will allow to obtain information about non-thermal processes and plasma dynamics, and the 35 slits will allow to have this information at good time and space resolution (DePontieu et al. 2022, The Astrophysical Journal, 926:52). Italy is contributing through an ASI-INAF agreement which includes scientific modeling and diagnostics (University of Palermo, University of Calabria, INAF/OACN and OAcT), and technological instrumentation, in particular, filters with CNT technology (University of Palermo, INAF/Astronomical Observatory of Palermo), mirrors (INAF/Astronomical Observatory of Brera) and coating tests (CNR/IFN Padua).

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