



## ***MXGS-ASIM INTA CONTRIBUTION:***

- **Thermal Control Subsystem Definition & Implementation:**
  - Loop Heat Pipes (LHP)
  - Axial Grooved Heat Pipes (AGHP)
  - Survival/Start-Up Heaters and Radiators
  - Multi-Layer Insulation (MLI)
- **Product Assurance & Safety for the Spanish Contribution**
- **Assembly, Integration, Verification and Test (AIVT):**
  - Structural and Thermal Model (STM)
  - Flight Model (FM) for Acceptance
- **Scientific Program Definition**

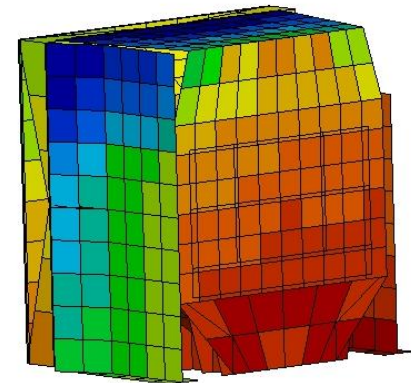
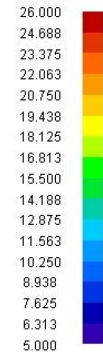
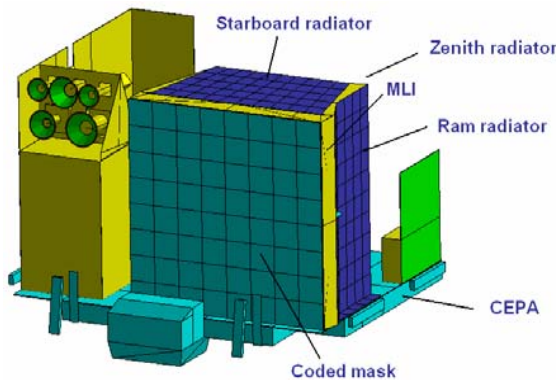
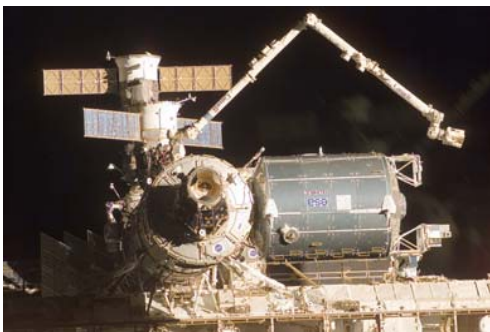
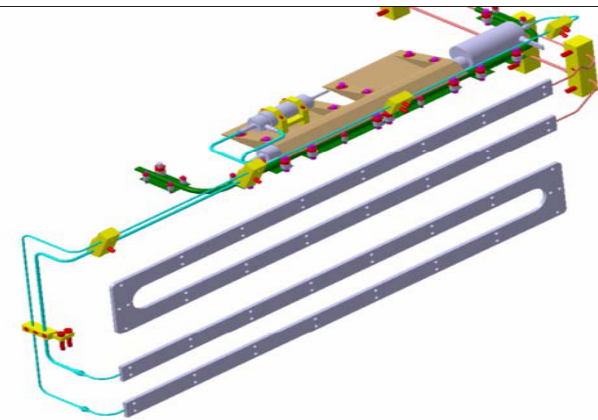
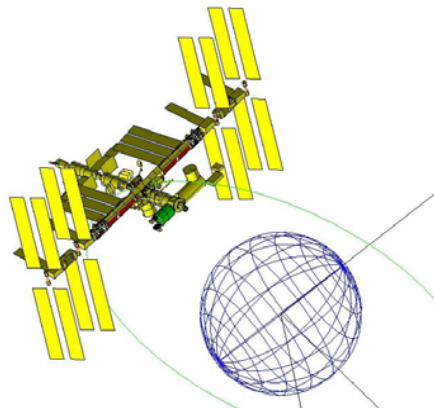




# Session 3 A – 4

## INTA Contribution to MXGS Instrument for the ASIM Payload

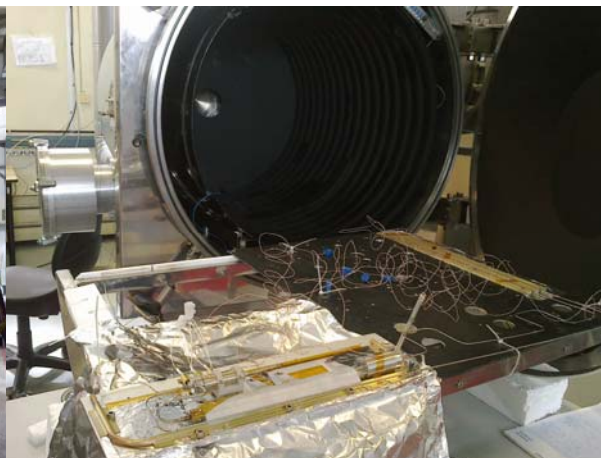
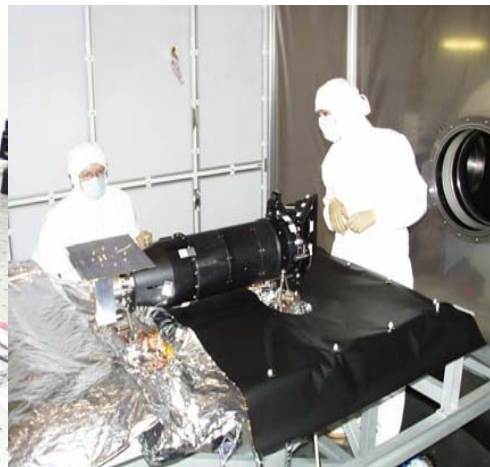
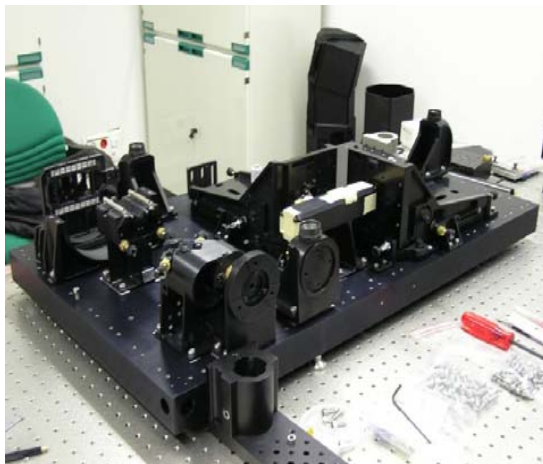
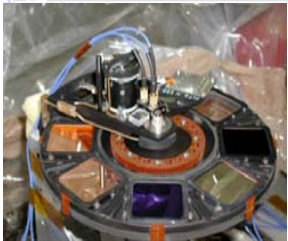
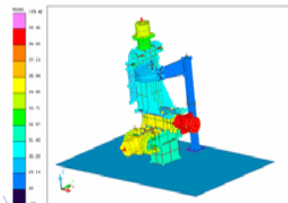
ASIM is located on the ISS Columbus Module External Facility, with the MXGS instrument facing NADIR, will continuously observe the High Atmosphere accumulating a great number of events. From thermal point of view, ISS is a challenge in order to fulfill the temperature constrains in all orbit condition and attitude. Adding the volume constrains, it imposes the design options.





# Session 3 A – 4

## INTA Contribution to MXGS Instrument for the ASIM Payload



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