

SPICAM/SPICAV Team Meeting

Catania, Sicily, June 16-19 2013

Sunday June 16 - 19:00-21:00 - Future missions (1-MAVEN)

Chairman: Sacha Trokhimovskiy

A.C. Vandaele			Welcome & Logistics
B. McClintock	19 h 00	19 h 40	Simulations of the MAVEN Imaging Ultraviolet Spectrograph response to the Mars atmosphere
J. Deighan	19 h 40	20 h 20	Overview of the MAVEN IUVS Processing Pipeline: Current State and Testing
J. Clarke	20 h 20	21 h 00	Update on HST Observations of the Martian Upper Atmosphere

Monday June 17 - 9:00-13:00 - Instrument status/Operations/Archive

Chairman: Emmanuel Marcq

A. Reberac	9 h 00	9 h 20	SPICAM & SPICAV Instrument healths and team status
G. Lacombe, <u>A. Reberac</u>	9 h 20	9 h 45	Operations with SPICAM on Mars Express : status and feedback
B. Segret	9 h 45	10 h 10	Operations with SPICAV on Venus Express : status and feedback
B. Ristic	10 h 10	10 h 35	SOIR operations 2012-2013

Coffee break

N. Chapron	11 h 00	11 h 25	SPICAM & SPICAV archive and pipeline status
A. Mahieux	11 h 25	11 h 50	SOIR archive and pipeline status
A. Reberac	11 h 50	12 h 15	SPICAM & SPICAV stellar observations : A new stellar spectra database in the spectral range from 110 nm up to 320 nm
J.-L. Bertaux	12 h 15	12 h 40	A new approach to modeling the stray light problem: status report

Lunch

Monday June 17 - 14:30-18:30 - Composition

Chairman: Valérie Wilquet

F. Montmessin	14 h 30	15 h 20	SPICAM results: overview of 10 years onboard Mars Express
A.C. Vandaele	15 h 20	15 h 50	CO in the mesosphere and lower thermosphere of Venus from SOIR

Coffee break

A. Mahieux	16 h 20	16 h 50	HCl and HF in the Venus atmosphere from the SOIR instrument on board Vex
D. Belyaev	16 h 50	17 h 20	Measurements of D/H ratio in halides on Venus
A. Fedorova	17 h 20	17 h 50	Water vapor and the cloud top variations in the Venus' mesosphere from the SPICAV observations
F. Lefèvre	17 h 50	18 h 20	Updated climatology of the Martian ozone layer

Tuesday June 18 - 9:00-11:00 - Aerosols/clouds

Chairman: Denis Belyaev

Y. Willame	9 h 00	9 h 30	Nadir retrievals of ozone, aerosol's optical depth and surface reflectivity with SPICAM/UV
L. Rossi	9 h 30	10 h 00	Study of Venus' cloud layers by polarimetry using SPICAV/VEx
V. Wilquet	10 h 00	10 h 30	SPICAV-SOIR mesospheric aerosols observations and modelling
A. Fedorova	10 h 30	11 h 00	Evidence for a bimodal size distribution for the suspended dust particles on Mars (by means of SPICAM observations)

Coffee break

Tuesday June 18 - 11:30-13:30 - Airglow

Chairman: Arnaud Mahieux

S. Guslyakova	11 h 30	12 h 00	Oxygen dayglow observations on Mars by SPICAM IR on Mars-Express
J.L. Bertaux	12 h 00	12 h 30	The season/latitude distribution of SPICAM NO nightglow emission as a tracer of thermospheric circulation of Mars and comparison with O ₂ nightglow emission
A. Fedorova	12 h 30	13 h 00	Observations of the near-IR nightside windows of Venus during Maxwell Montes transits by SPICAV IR
J.-L. Bertaux	13 h 00	13 h 30	Venus night side measurements of winds at 115 km altitude from NO bright patches tracking

Lunch

Tuesday June 18 - 14:30-18:30 - Structure/Modeling

Chairman: Arianna Piccialli

F. Montmessin	14 h 30	15 h 00	Transport-driven formation of a polar ozone layer on Mars
A. Mahieux	15 h 00	15 h 30	CO ₂ rotational temperatures from the SOIR instrument on board Vex
C. Parkinson	15 h 30	16 h 00	Temperatures in Venus' Lower Thermosphere: Comparison of VTGCM and SOIR Profiles at the Terminator
J.L. Bertaux	16 h 00	16 h 30	Atmospheric Oscillation in the atmosphere of Venus: the Cupido effect (or Aros/Anteros?)

Coffee break

A. Stolzenbach	17 h 00	17 h 30	Three-dimensional modelling of Venus photochemistry
C. Parkinson	17 h 30	18 h 00	Modeling of Observations of Night OH in the Venusian Mesosphere
C. Parkinson	18 h 00	18 h 30	Photochemical Distribution of Venusian Sulfur and Halogen Species

Wednesday June 19 - 9:00 -12:00 - Future missions (2-ExoMars)

Chairman: Franck Lefèvre

O. Korablev	9 h 00	9 h 40	Russian participation to ExoMars project and spectral investigations of the Mars
S. Trokhimovskiy	9 h 40	10 h 20	NIR and MIR spectrometers of Atmospheric Chemistry Suite (ACS) on board ExoMars Trace Gas Orbiter
A. C. Vandaele	10 h 20	11 h 00	The NOMAD instruments' suite on ExoMars TGO

Coffee break

Concluding remarks - wrap-up & discussions