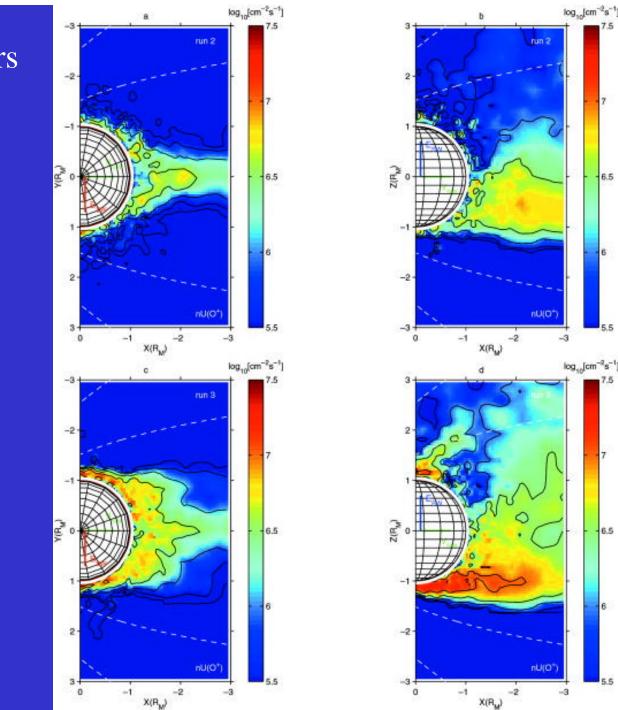
Structure and Ion Composition of the Martian Wake Boundary Layer

> A. Fedorov, E. Budnik *CESR, Toulouse, France* S. Barabash *IRF, Kituna, Sweden* D. Winningham *SWRI, San Antonio, USA* ASPERA Team

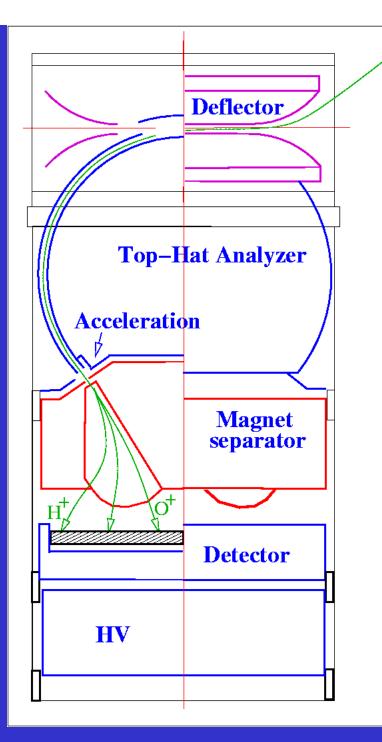
Ion Escape from Mars



6.5

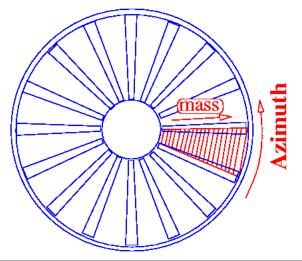
6.5

Esa Kallio and Pekka Janhunen, JGR, V.107, p. 1035, 2002



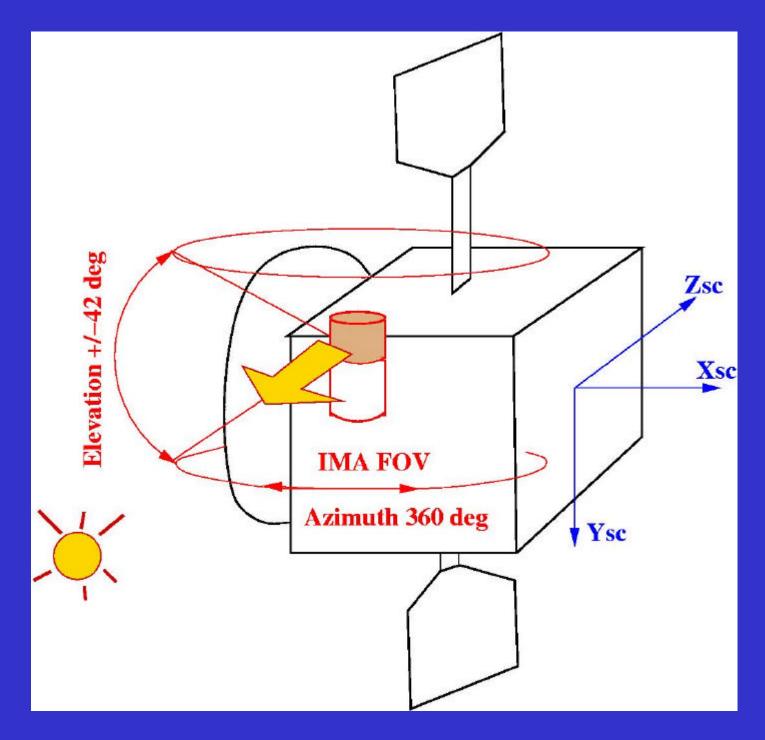


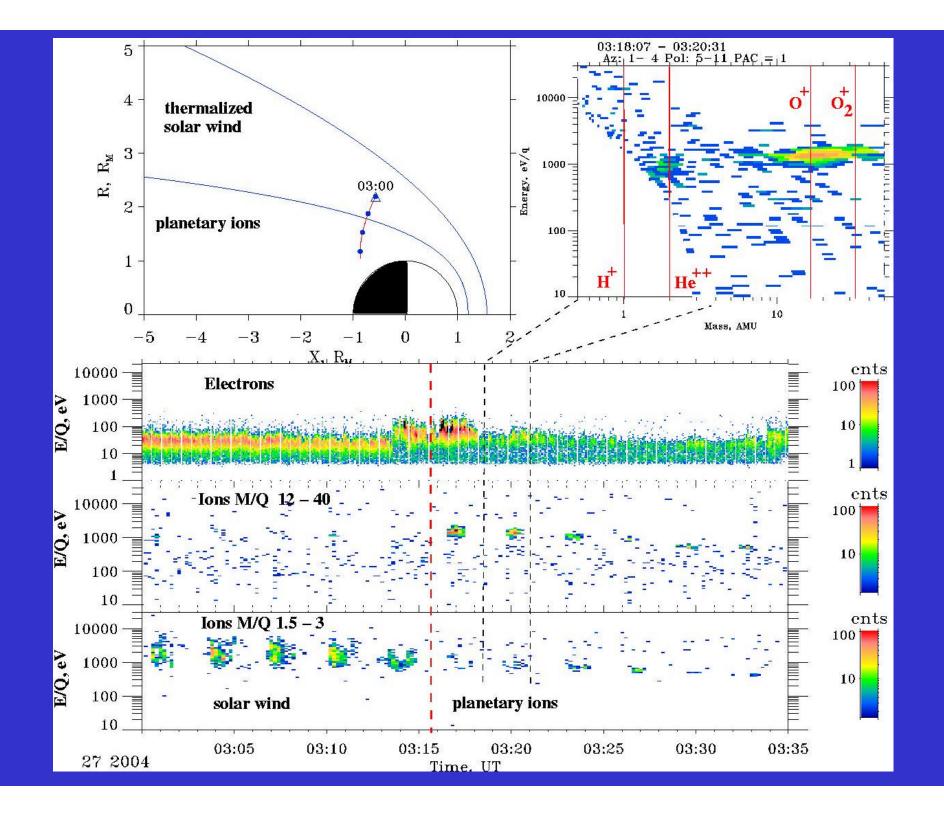
16 azimuthal sectors 32 mass bins

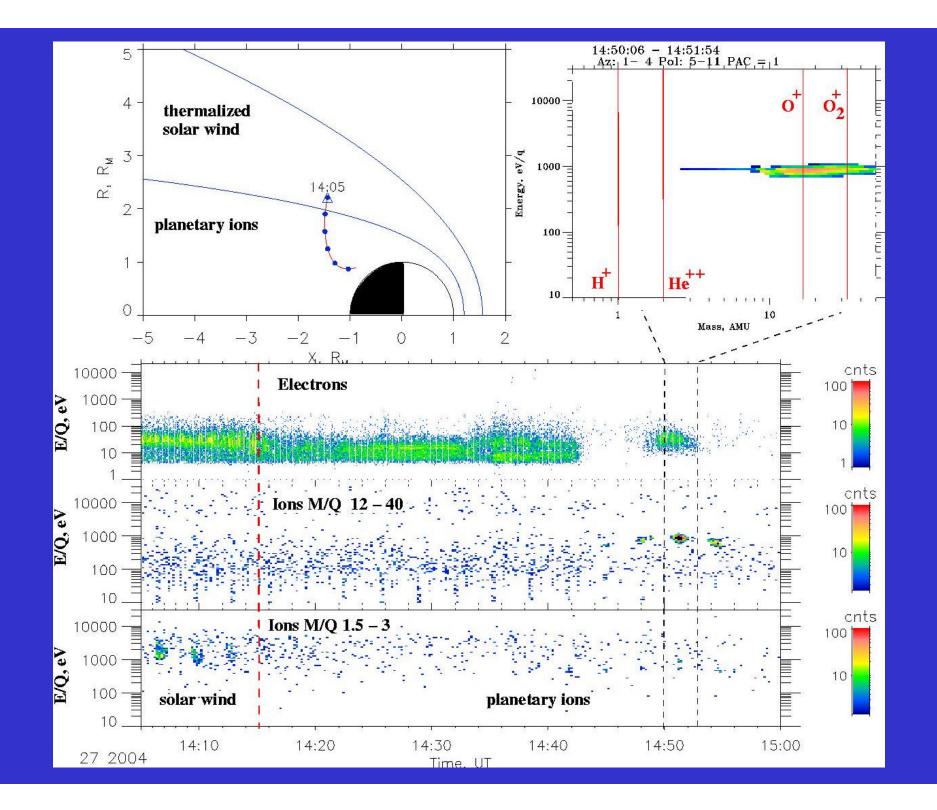


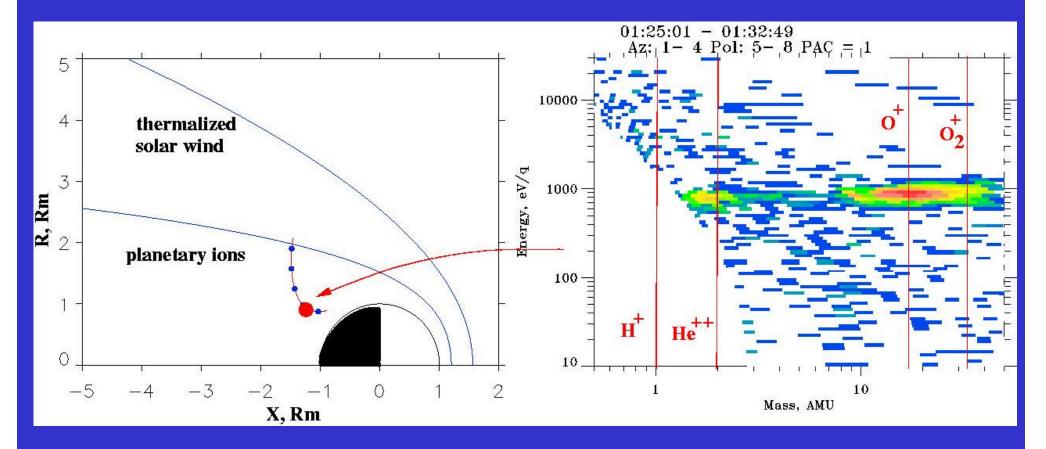
IMA mass-analyzer conceptual design

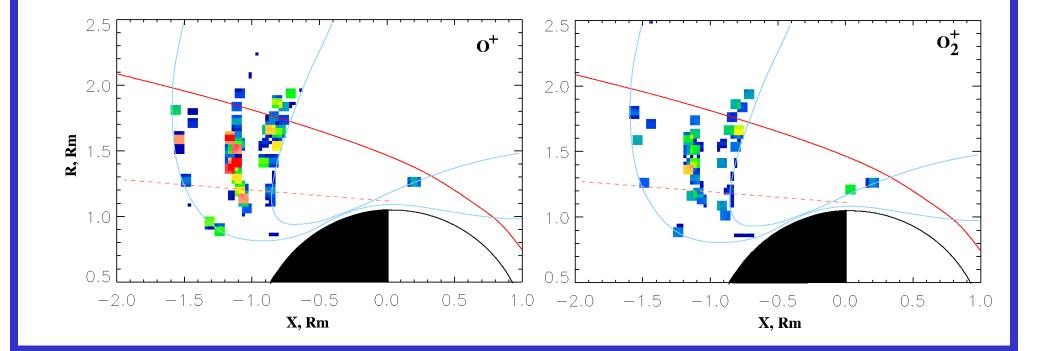
IMA attitude and Field of View

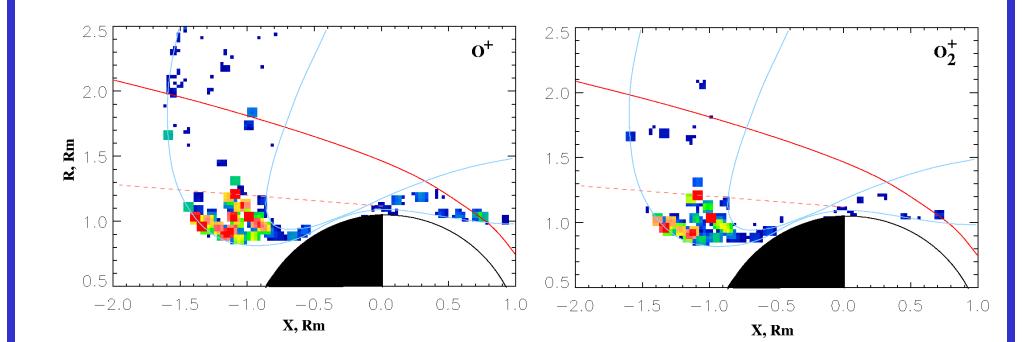


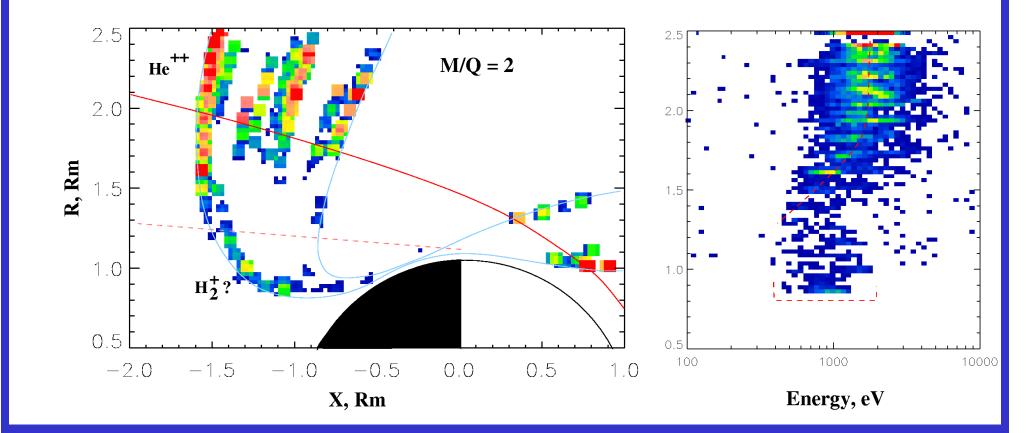


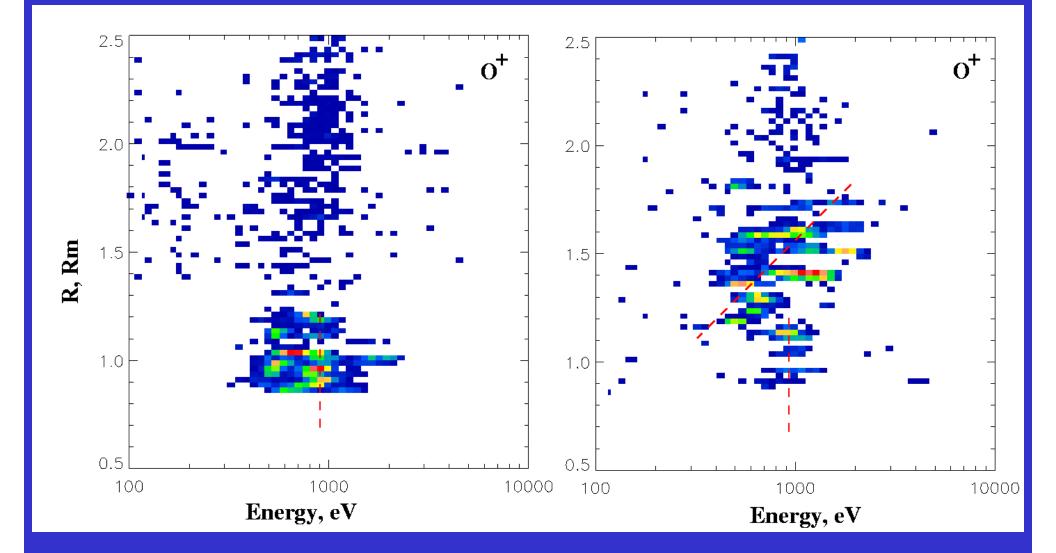


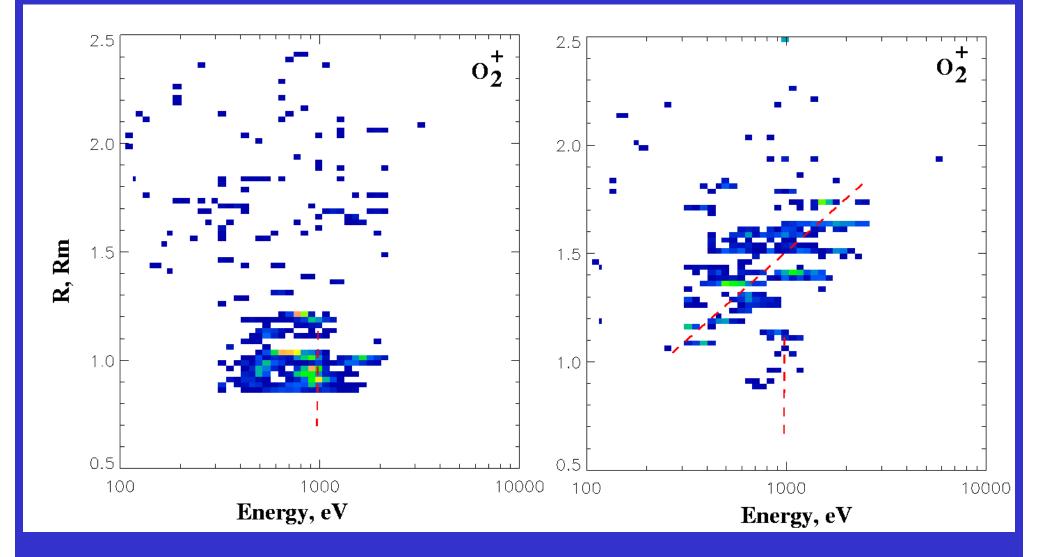












Conlusions:

- There are two regimes of escaping planetary ions :
 - Planet shadow
 - Boundary Layer
 - Perhaps it depends on IMF_{YZ} direction
- Ions M/Q = 2 are seen in the planet shadow

To Do:

IMF reconstruction by MGS observations