



## **The radiance from the Martian surface measured by the Planetary Fourier Spectrometer in Mars Express mission - preliminary conclusions about the composition**

**M.I. Blecka** (1), V. Formisano (2), A. Jurewicz (1), N. Andrzejewska (1), A. Maturilli (1), M. Giuranna (2)

(1) Space Research Center PAS, Warsaw, Poland, (2) IFSI/CNR Via del Fosso del Cavaliere, 00133 Rome, Italy, (mib@cbk.waw.pl / Phone:+48 22 8403766)

The work is directly connected with measurements done by the Planetary Fourier Spectrometer (PFS) during the present mission to Mars - "Mars Express". Several spectra of Mars in which the influence of dust looks negligible were selected from PFS measurements. The spectral regions where the influence of gaseous atmosphere is also not important were taken into consideration. The shapes of the features in the measured PFS data were compared with the features of reflectance/emittance of Mars analogue minerals known from modelling, existing databases and new laboratory measurements. Preliminary conclusions about the composition are done.