# Supplement to the analyses of the Fermo meteorite

I. Kapišinský
Astronomical Institute of the Slovak Academy of Sciences, Interplanetary Matter Division[1]

G. Cevolani
Istituto ISAC del CNR[2]

K. Iždinský
Institute of Materials and Machine Mechanics[3]

Z. Pánek
Institute of Inorganic Chemistry of the Slovak Academy of Sciences[4]

M. Zemánková
Institute of Materials and Machine Mechanics[3]

A b s t r a c t: The X-ray diffraction (XRD) and energy-dispersive X-ray spectroscopy (EDX) analyses confirm the presence of (Fe, Ni) – kamacite, $(Mg, Fe)_2SiO_4$ – olivine and $(Fe, Mg)SiO_3$ – pyroxene as the major phases besides small amount of iron sulfide which was locally detected by the EDX method. The elements which have a higher affinity to oxygen than Si(Ca, Mg, Al, Ti) form complex oxide phases, but their content is below the XRD detection limit.

**Key words:** scanning electron microscopy, X-ray spectroscopy, Fermo H-chondrite, interplanetary dust particles, kamacite, olivine, pyroxene

[1] Dúbravská cesta 9, 845 04 Bratislava, Slovak Republic
e-mail: astrorom@savba.sk
[2] Via Gobetti 101, 40129 Bologna, Italy; e-mail: g.cevolani@isao.bo.cnr.it
[3] Račianska 75, 831 02 Bratislava, Slovak Republic
[4] Dúbravská cesta 9, 845 36 Bratislava, Slovak Republic