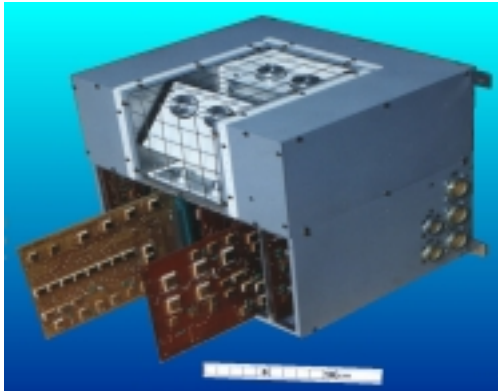


1.2. INTERBALL.

During the period 1997-1999 four energetic particle instruments, namely DOK2X, DOKSX, DOK2A and DOKSA were providing the data on fluxes, energy spectra and angular distribution of medium energy electrons and ions (energy range $\sim 20 - 600$ keV) onboard Interball satellites (Tail probe with 200.000 km apogee launched on August 3, 1995 and working at least until February 2000; its subsatellite Magion 4; the Auroral probe with the apogee 20.000 km launched on August 29, 1996; its subsatellite Magion 5). The energetic particle instruments have been designed, tested and constructed at the Institute of Experimental Physics, Slovak Academy of Sciences, Košice (IEP SAS Košice), in the cooperation with the institutes in Russia and Greece. Two of the instruments are seen in Fig.6 and Fig.7. Results obtained until now are listed in part 2.

Fig.6. Apparatus DOK2 for the measurements of medium energy electrons and ions, developed



at the IEP SAS Košice, in the collaboration with laboratories in Russia and Greece providing more than 4 years of measurements on Interball-1 satellite.

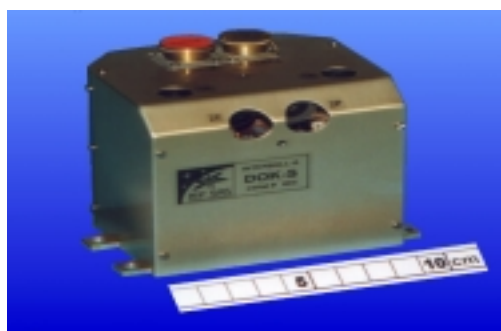


Fig.7. The detector block of DOKS, the simplified version of DOK2, for medium energy particle measurements at Magion 5 developed at IEP SAS Košice with the Technical University of Košice.