



Czech activities in ILWS

Zdenek Nemecek

Charles University, Prague

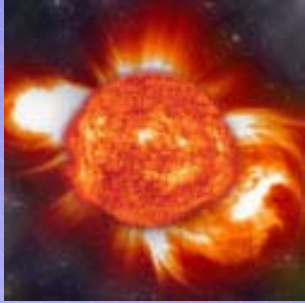
Wien, April 24, 2005



Present status

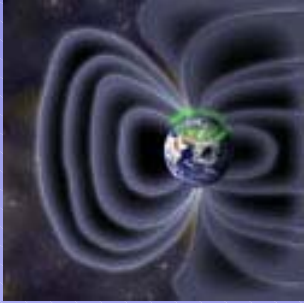
- ❖ No dedicated committee
- ❖ Activities are coordinated by SCOSTEP
- ❖ General orientation on cooperation with ESA

- ❖ SOHO
- ❖ Double Star
- ❖ Cluster II
- ❖ Bepi Colombo
- ❖ Solar orbiter
- ❖ Spectr R



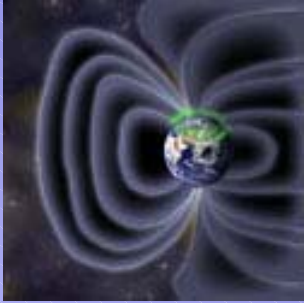
Astronomical Institute

- Ground observation of the solar corona in different spectral bands
- Participation in the SOHO mission, analysis of X-ray observations
- Ground observation and modeling of solar magnetic field
- MHD modeling of solar wind and propagation of distinct solar wind disturbances



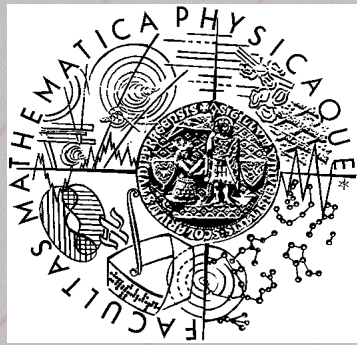
Institute of Atmospheric Physics

- Development and manufacturing of Czech spacecraft (MAGION 1-5) until 1996, no new mission approved
- Participation in the Russian Spectr – R project (joint with Charles University and Space Research institute in Moscow)
- Ground based observations of ionospheric vertical profiles

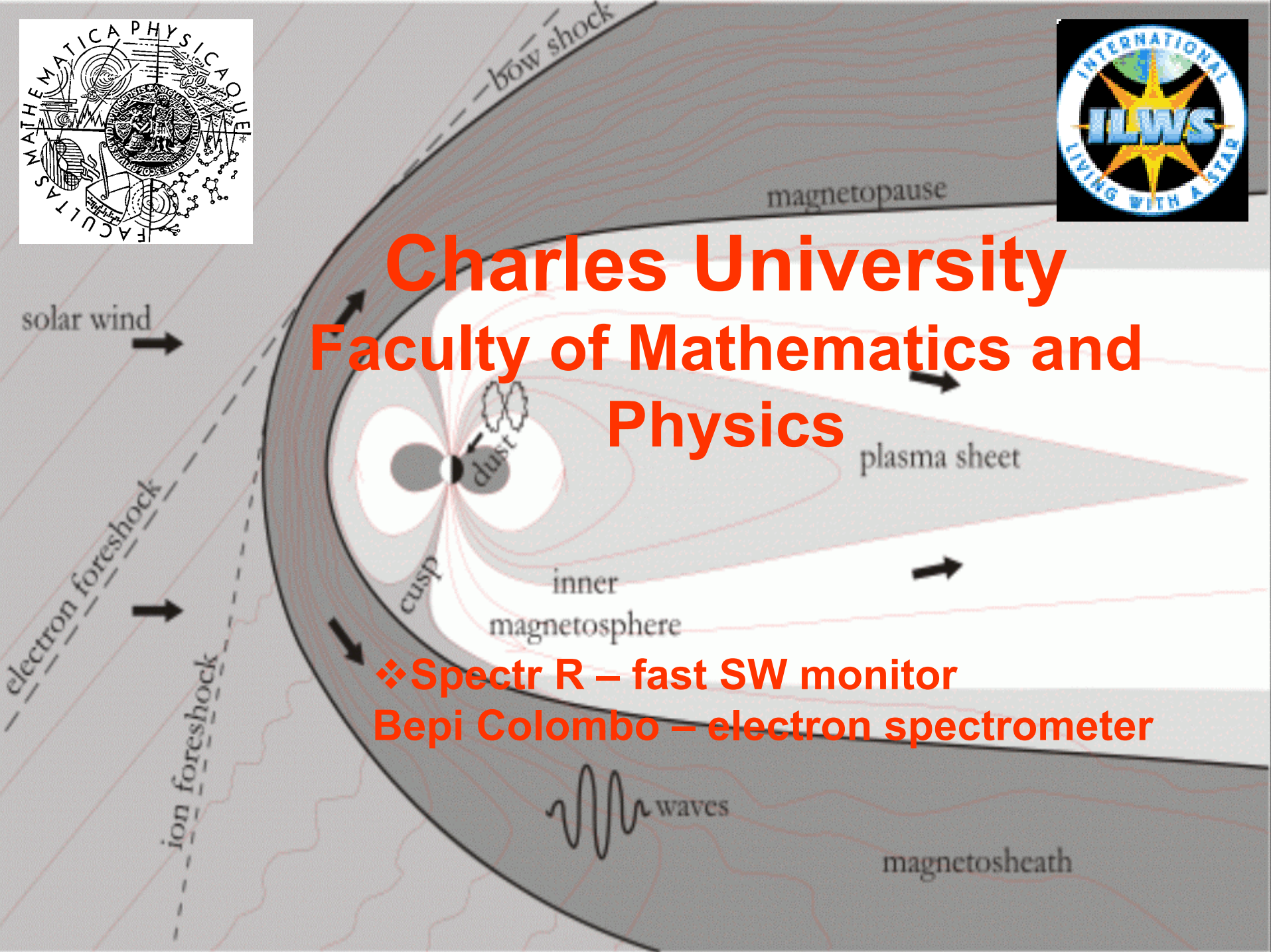


Institute of Atmospheric Physics

- Data based time dependent models of ionospheric parameters
- Auroral precipitation, processes in the outer cusp
- Active experiments in space
- Wave processes in the magnetosphere (Cluster II, Interball, LEO satellites)
- Wave generation and propagation in the bow shock region



Charles University Faculty of Mathematics and Physics



❖ **Spectr R – fast SW monitor**

Bepi Colombo – electron spectrometer