



PRODEX Programme – Annex 1

PRODEX Poles of Expertise in Belgium

September 2005

This list is subject to regular reviews and can be consulted at www.belspo.be/space/. Coordinated suggestions from the Belgian scientific community to update it are welcome and meetings can be organized to discuss future Belgian priorities.

A. Life and Physical Sciences in Space (LS&PS)

The following topics are the main fields of expertise in Belgium selected from the cornerstones defined in the recently updated *Research Plan for Life and Physical Sciences in Space (2005-2009)* of ESA.

- Preparation of Human Planetary Exploration (multidisciplinary)
- Integrative Gravitational Physiology
- Molecular and Cell Biology
- Fluid Dynamics and Surface Tension, Multi-Component Systems
- Heat Transfer and Phase Transition
- Materials Designed from Fluids

B. Earth Observation (EO)

- Atmospheric Chemistry
- Meteorology and Climatology

C. Space Sciences (SS)

- Solar and Plasma Physics
- Planetary Atmospheres
- Planetary Geodesy
- Astrometry, Binaries and Fundamental Stellar Parameters
- Asteroseismology and Variable Stars
- Stellar Atmospheres and Circumstellar Material
- High-Energy Astrophysics
- Quasars, Gravitational Lenses and Cosmology