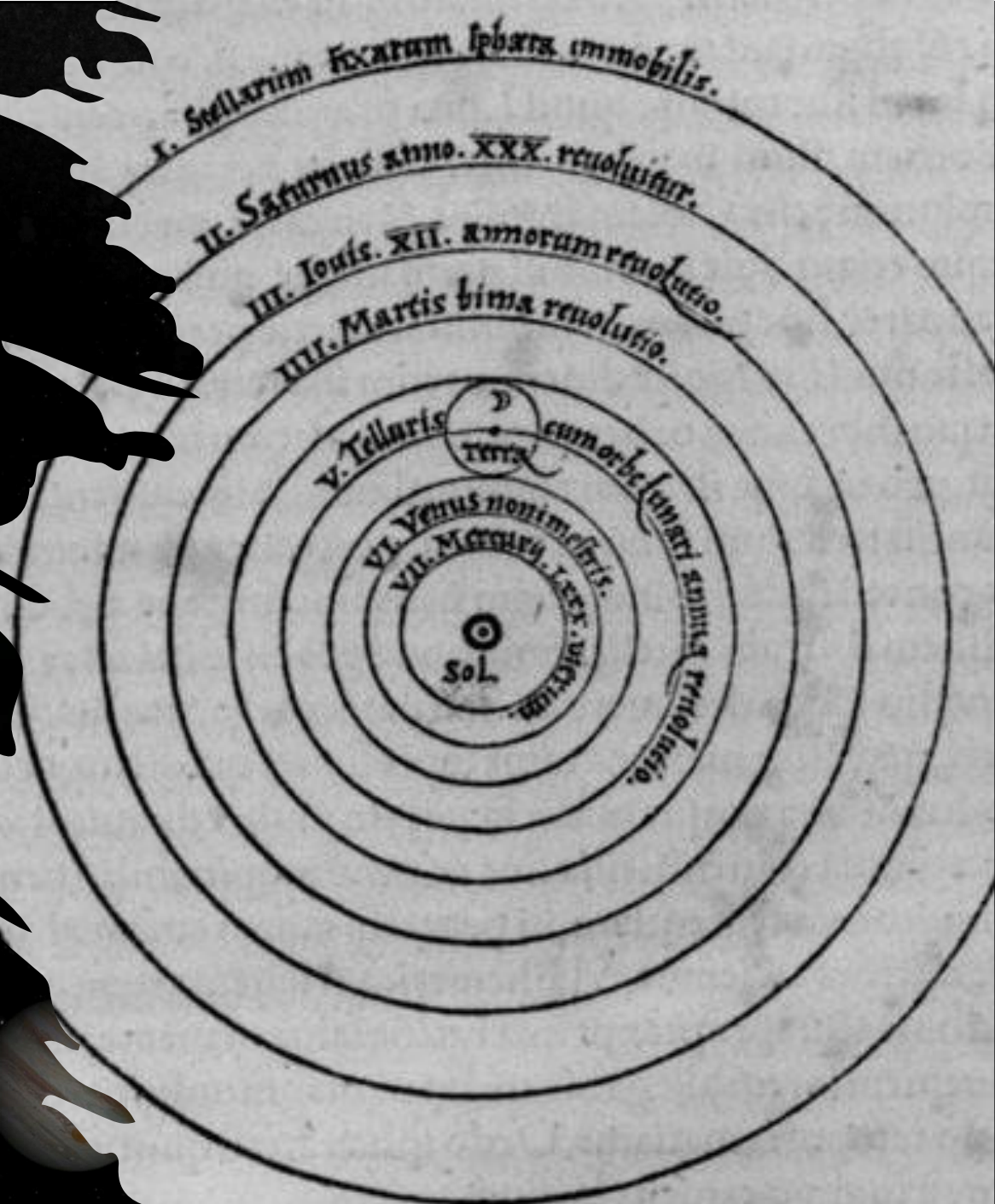
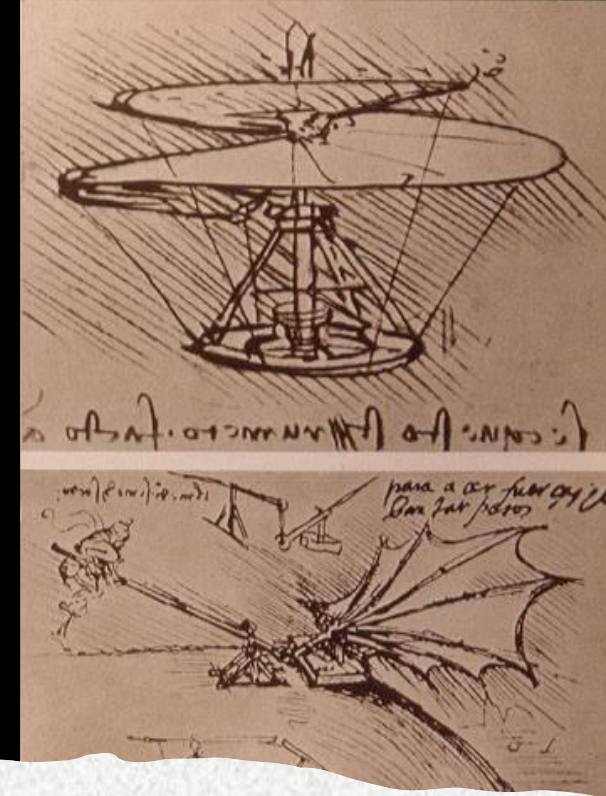


From Copernicus to
present days. 500 years
of polish space research
and exploration



Prof. dr hab. Iwona Stanisławska
Space Research Center PAS



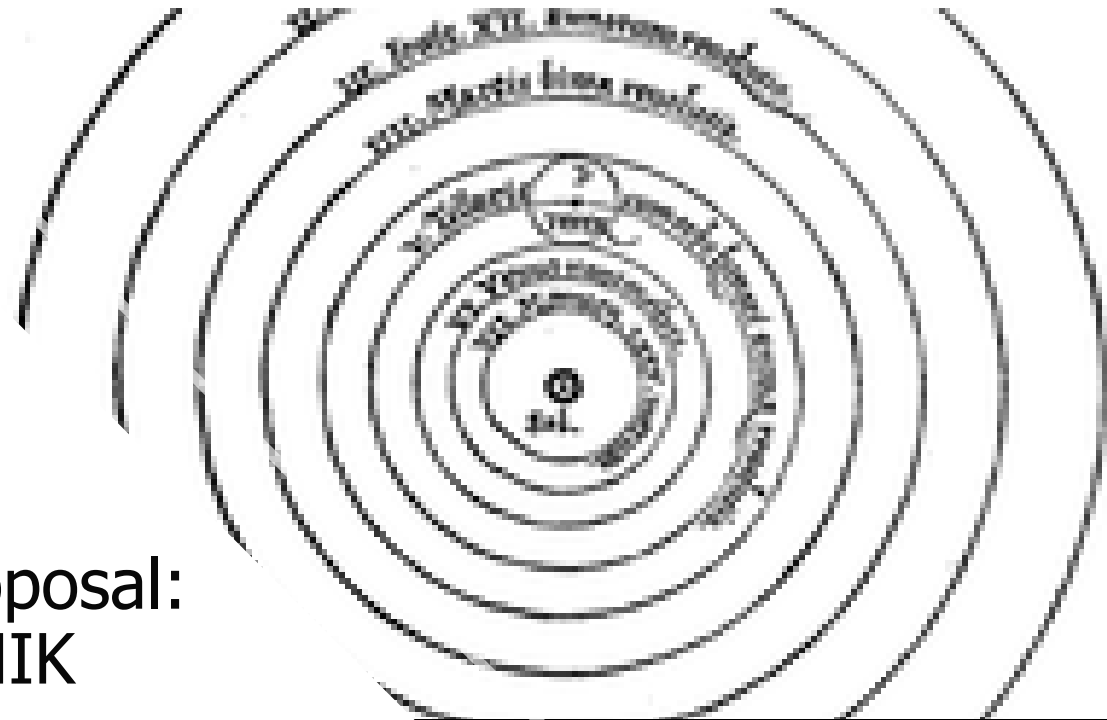
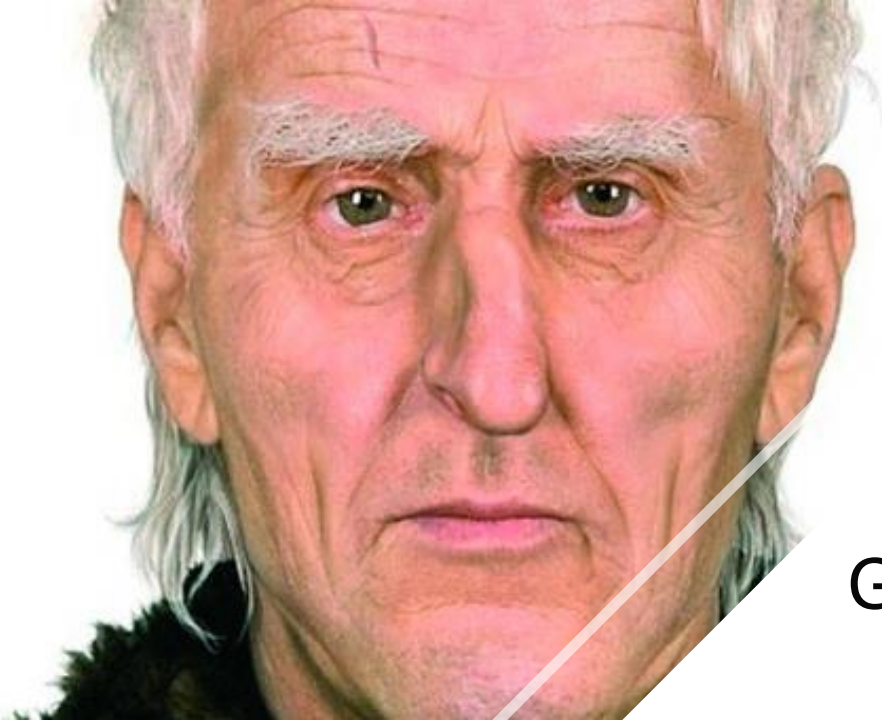
From dreams to
reality

A myth about Dadealus and Icarus is still alive in Euro-Atlantic culture. In modern times, this myth was transformed into concepts of Leonardo da Vinci's flying machines.

**„De Revolutionibus
orbium coelestium“**

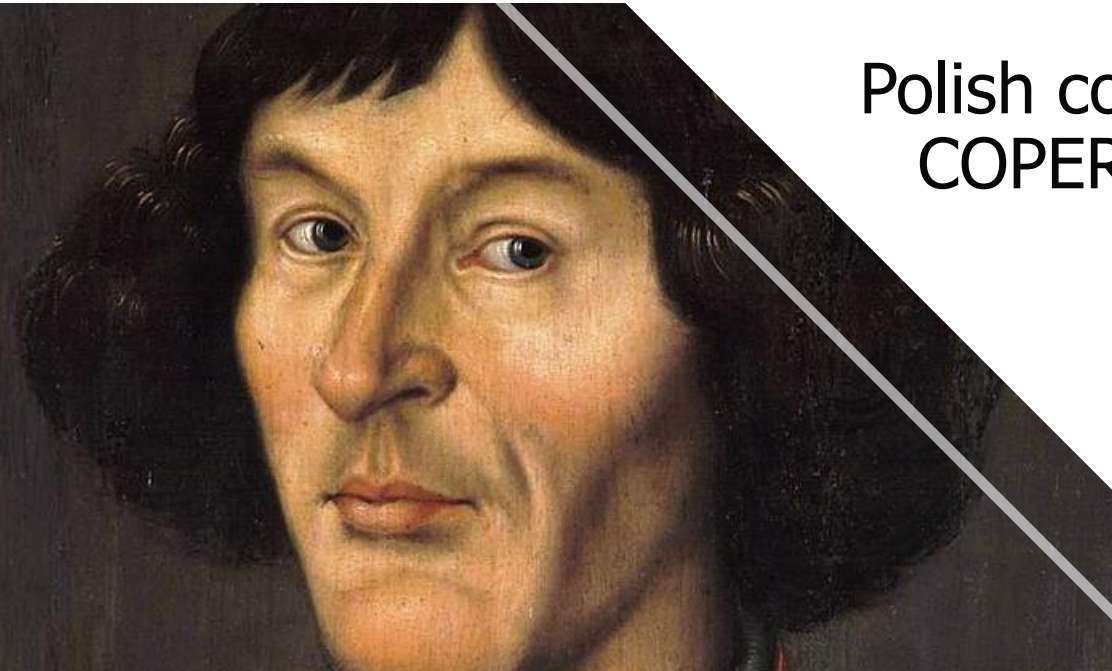
**„Among the numerous
and diverse arts and
sciences, the most
beautiful and worth
knowing are the
sciences that deal
with miraculous
revolutions in the
Universe and the
course of the stars,
and the causes of all
other phenomena in
the sky, and finally
explain the entire
system of the world.
And what is more
beautiful than
heaven?“**



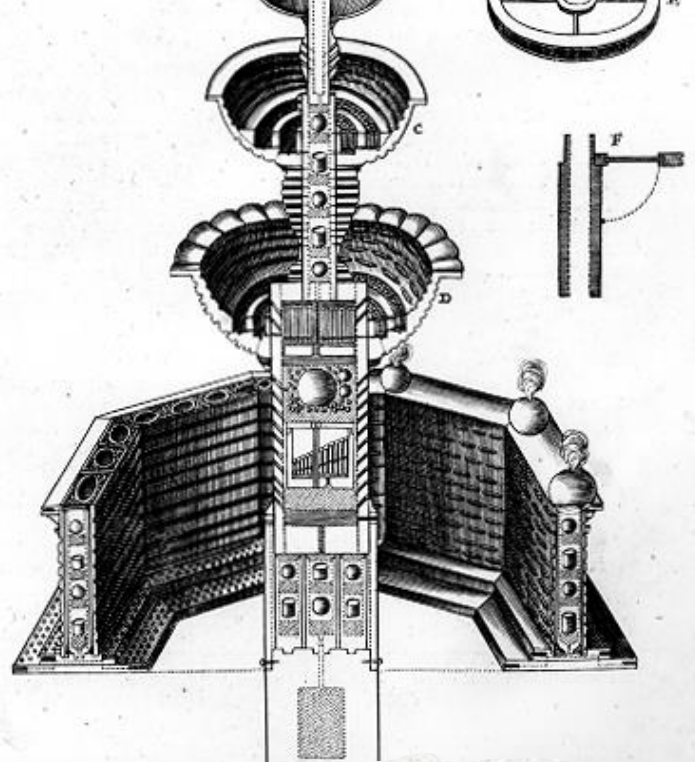


German proposal:
KOPERNIK

Polish correction:
COPERNICUS

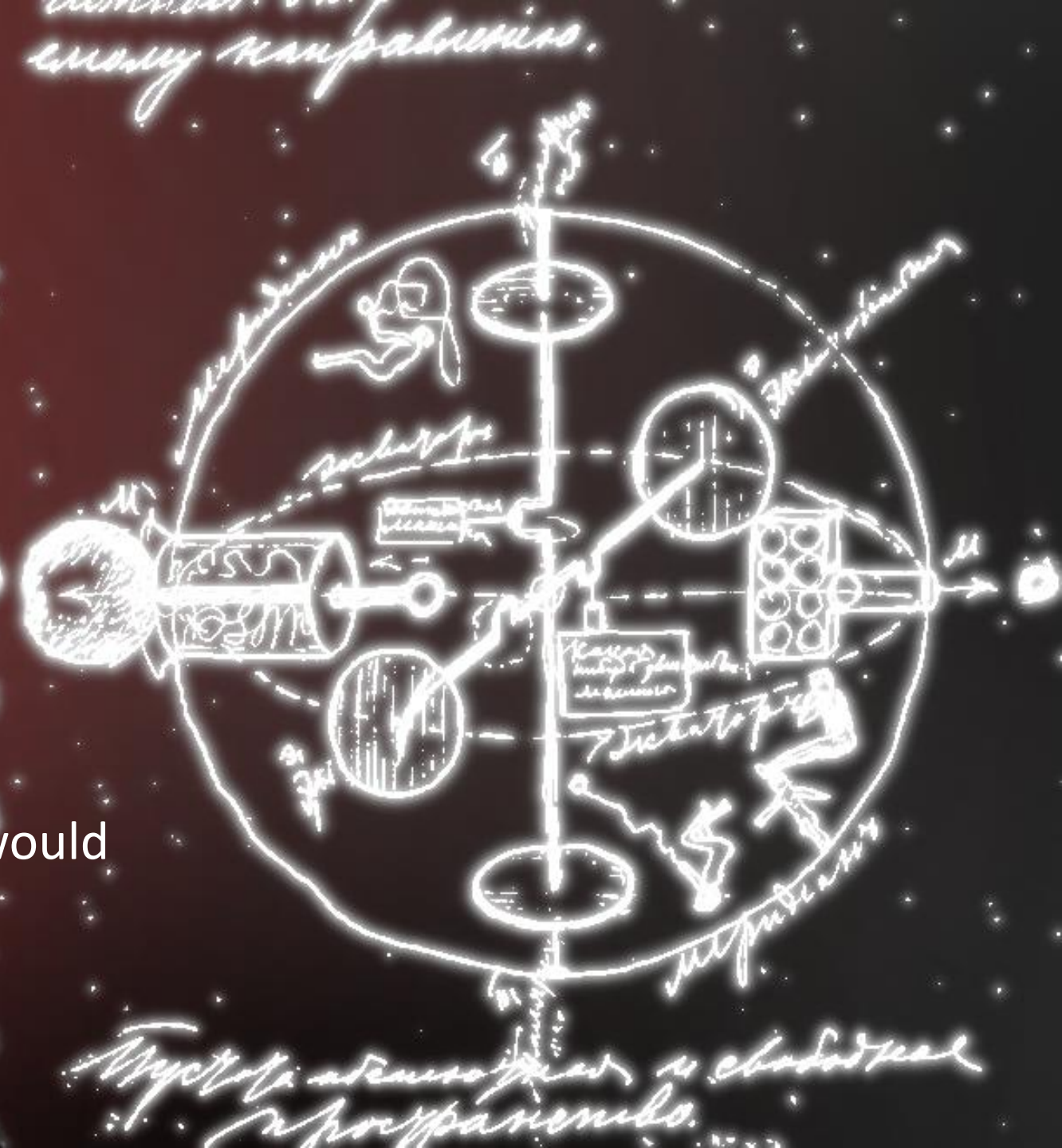
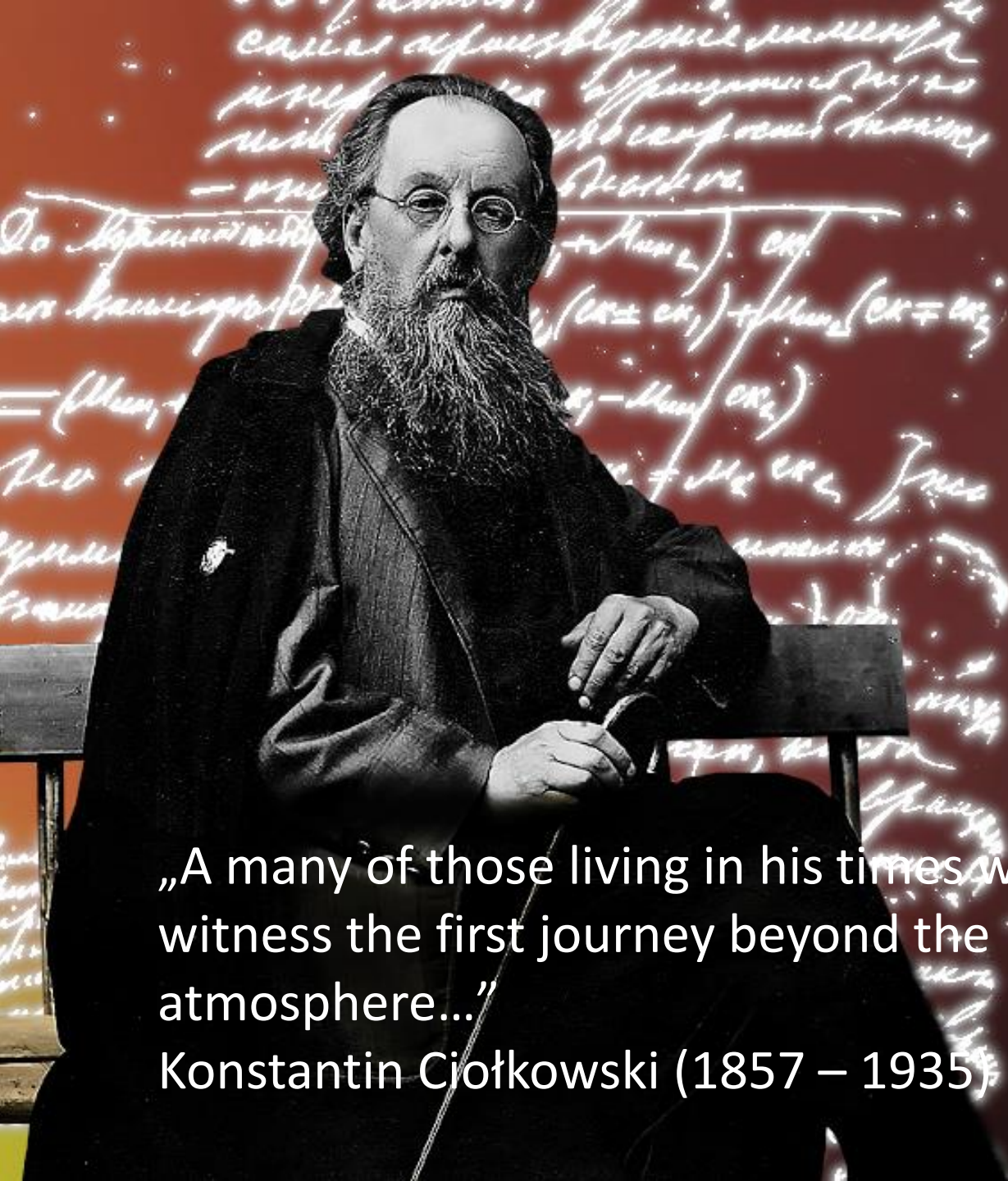


Nicolaus Copernicus 1473 - 1543



Johannes Hevelius (1611-1687)
known with his works on
comets and the Moon

- Oberster-lejtnant Kazimierz Siemianowicz (1610-1651?) wrote an artillery textbook where he discussed the technology of producing multi-stage rockets



„A many of those living in his times would witness the first journey beyond the atmosphere...”
Konstantin Ciolkowski (1857 – 1935)

Ary Sternfeld „the navigator of space routs”

Ary Abramovich Sternfeld, born in Sieradz, is considered the father of modern aerospace engineering and is also credited with introducing the word cosmonaut to our vocabulary

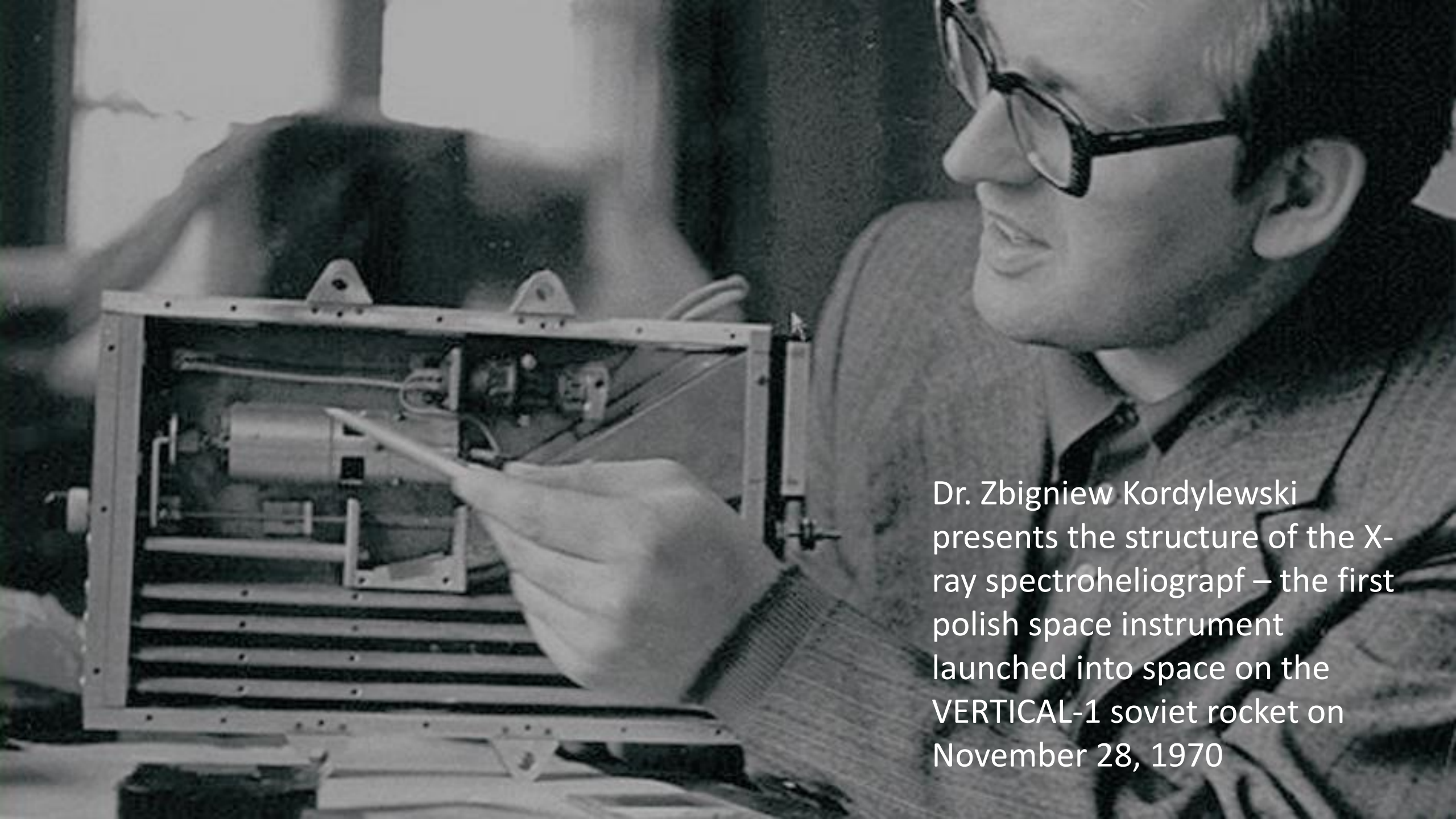
***Initiation a la
cosmonautique,
1932***



INTERCOSMOS

- The soviet space program Intercosmos was polish first steps into real space exploration.
- In 1978 kpt. Mirosław Hermaszewski became the first polish cosmonaut pilot
- Space Research Center of Polish Academy of Sciences was established one year before that event to support the flight preparations





Dr. Zbigniew Kordylewski presents the structure of the X-ray spectroheliograph – the first polish space instrument launched into space on the VERTICAL-1 soviet rocket on November 28, 1970

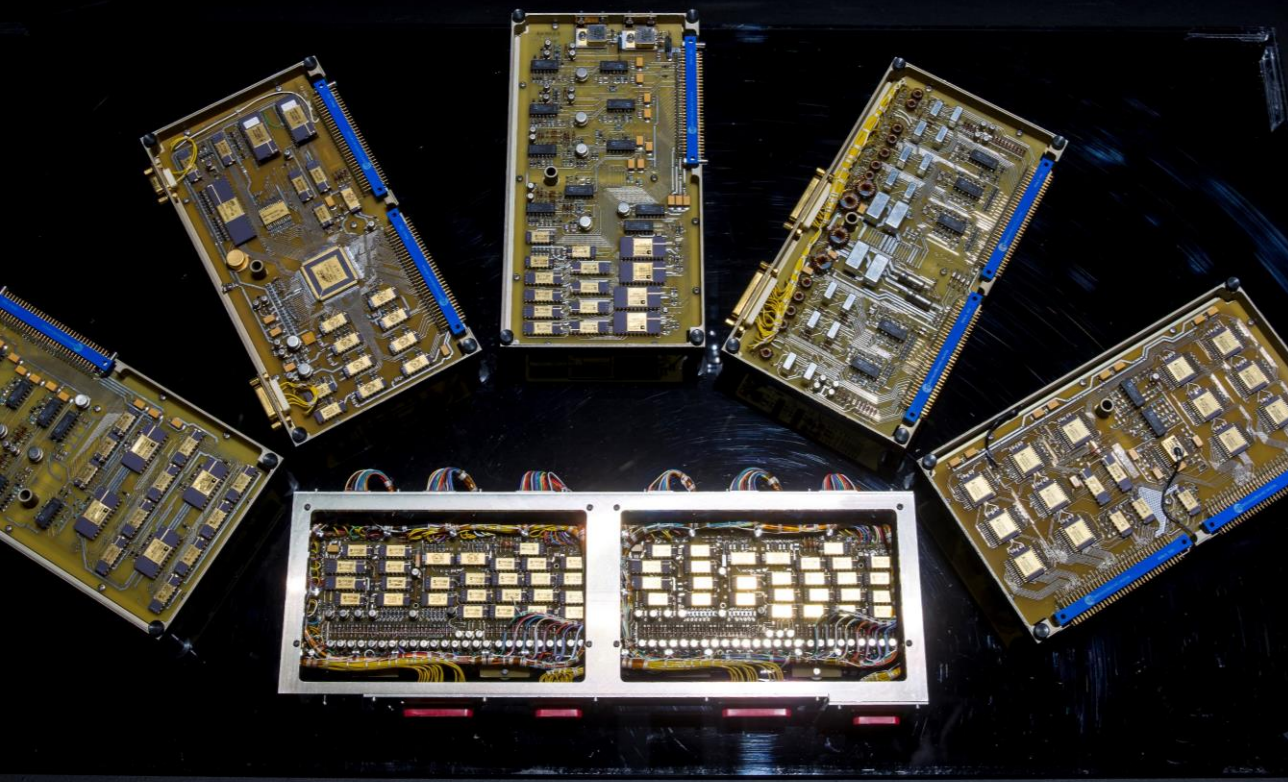
2006 Parliamentary Space Team has been appointed to join European Interparliamentary Space Conference.

2007 Poland joins Plan For European Cooperating States.

2012 Poland officially becomes member of ESA



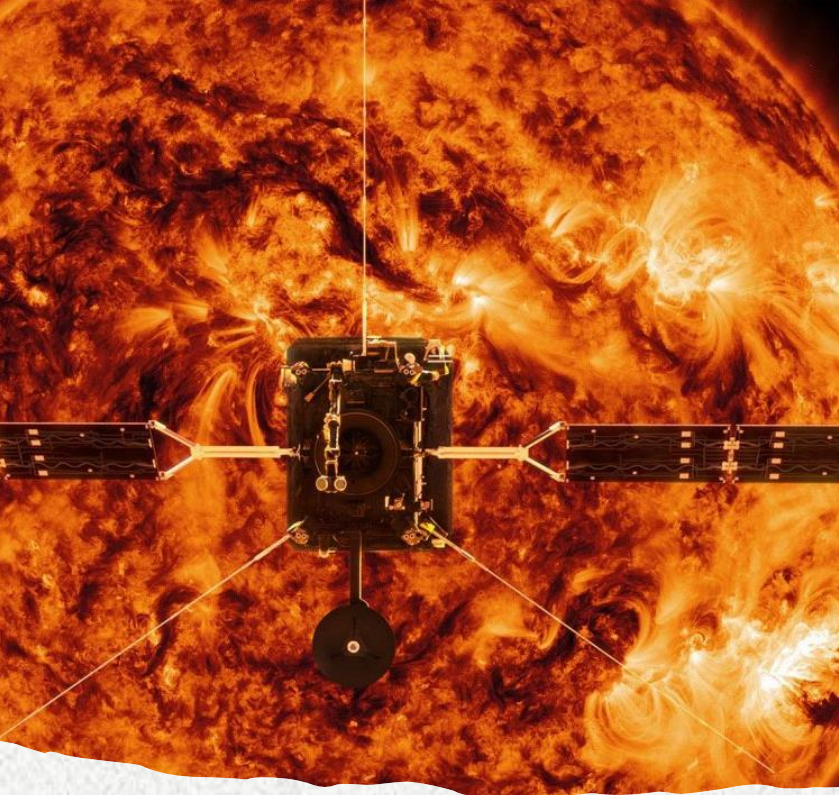
HERSCHEL 2009



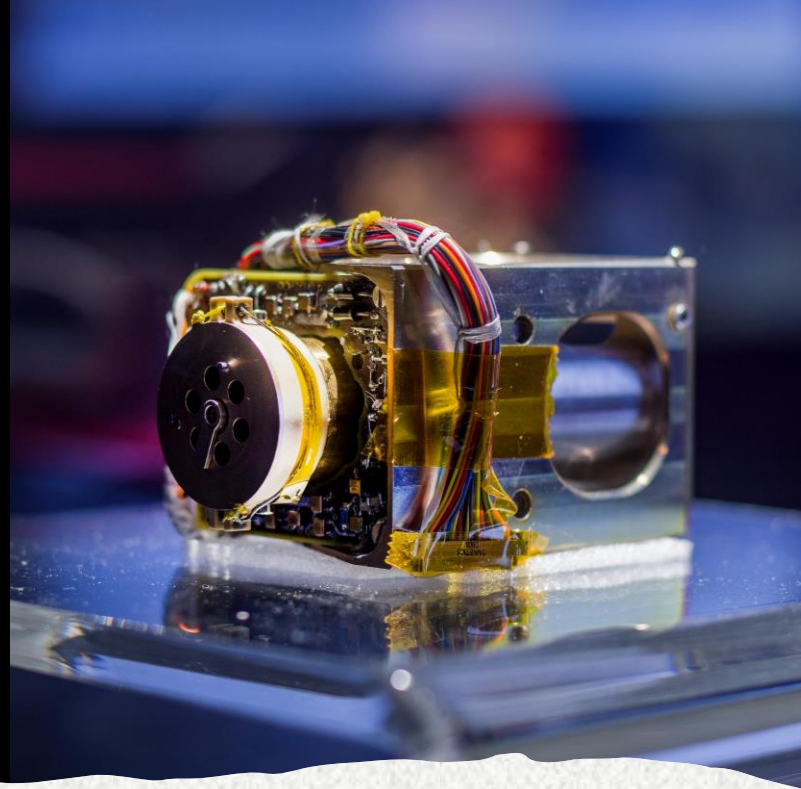
ROSETTA 2004



CBK PAN participated in 70 space missions, with almost 100 instruments. 25 ESA missions. Next 10 missions in partnership with ESA are in preparation.



SOLAR ORBITER 2020



BEPICOLOMBO 2018

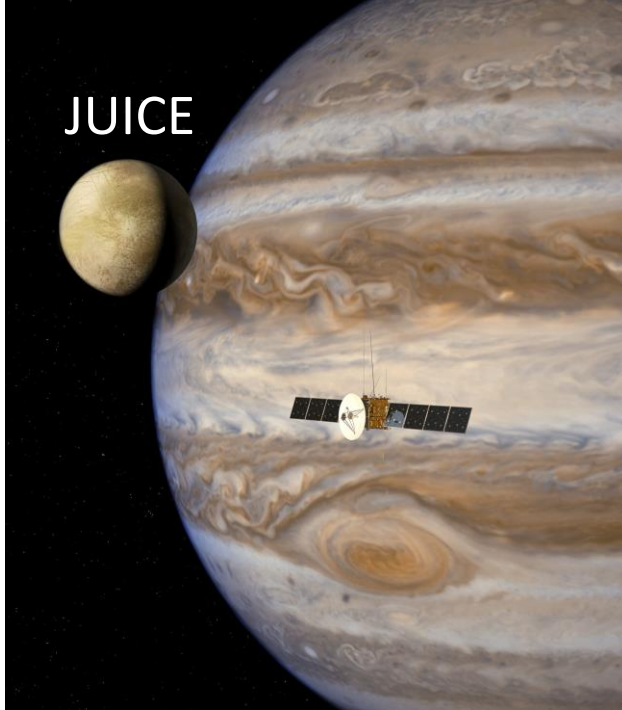


CASSINI 2016

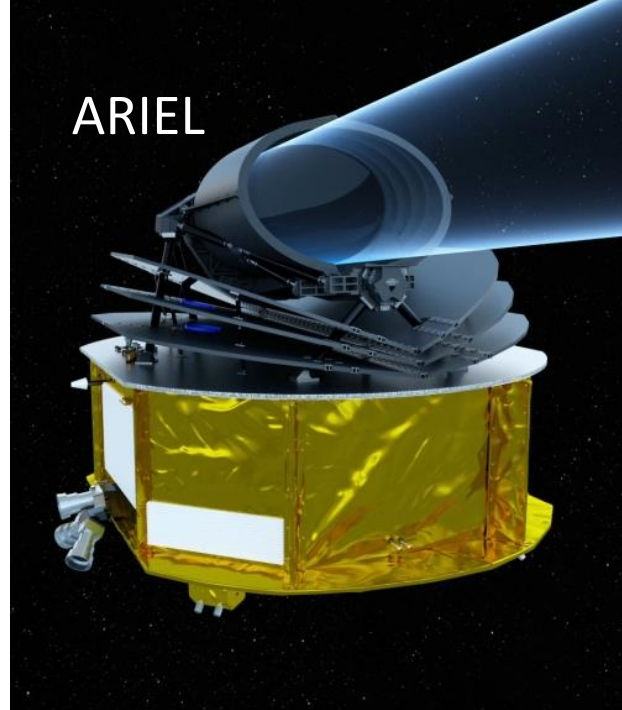
PROBA-3



JUICE



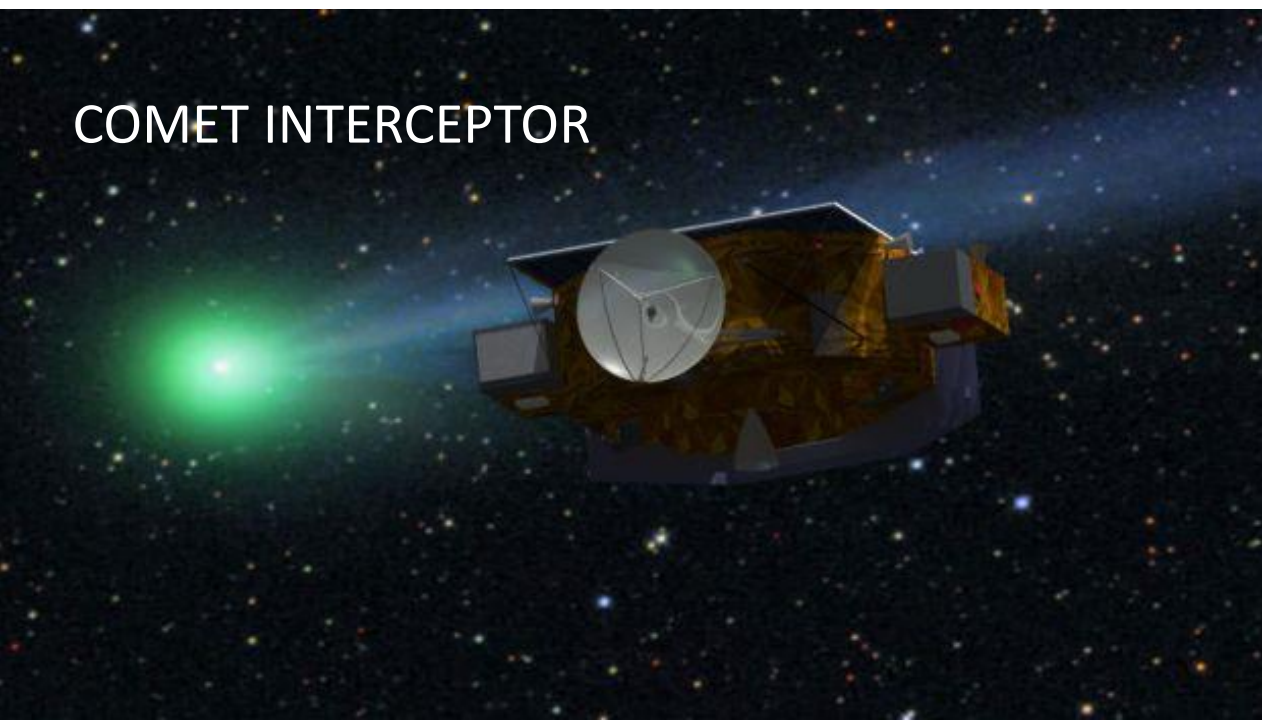
ARIEL



CLEAR SPACE



COMET INTERCEPTOR



ATHENA

