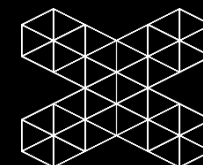




BX23 - Optical Sensors based on CARbon materials

X-festival 6 mei 2017





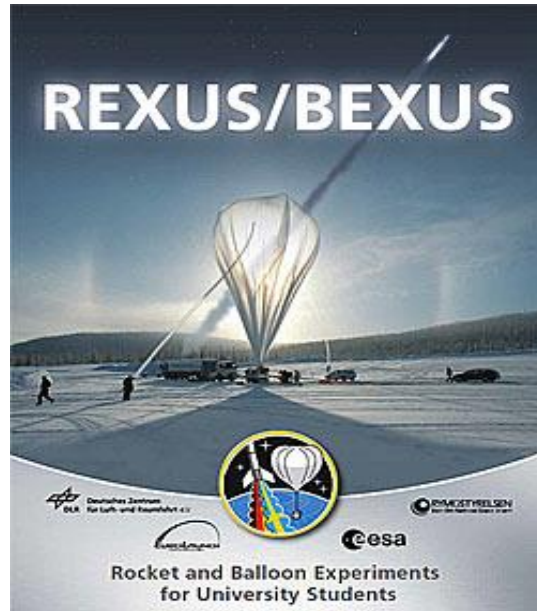
Wie is OSCAR?

Wat is OSCAR?

Optical Sensors based on **CAR**bon materials

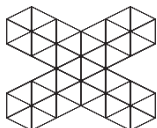
plastic zonnecellen

diamant magnetometer



Balloon **EX**periments for **U**niversity **S**tudents

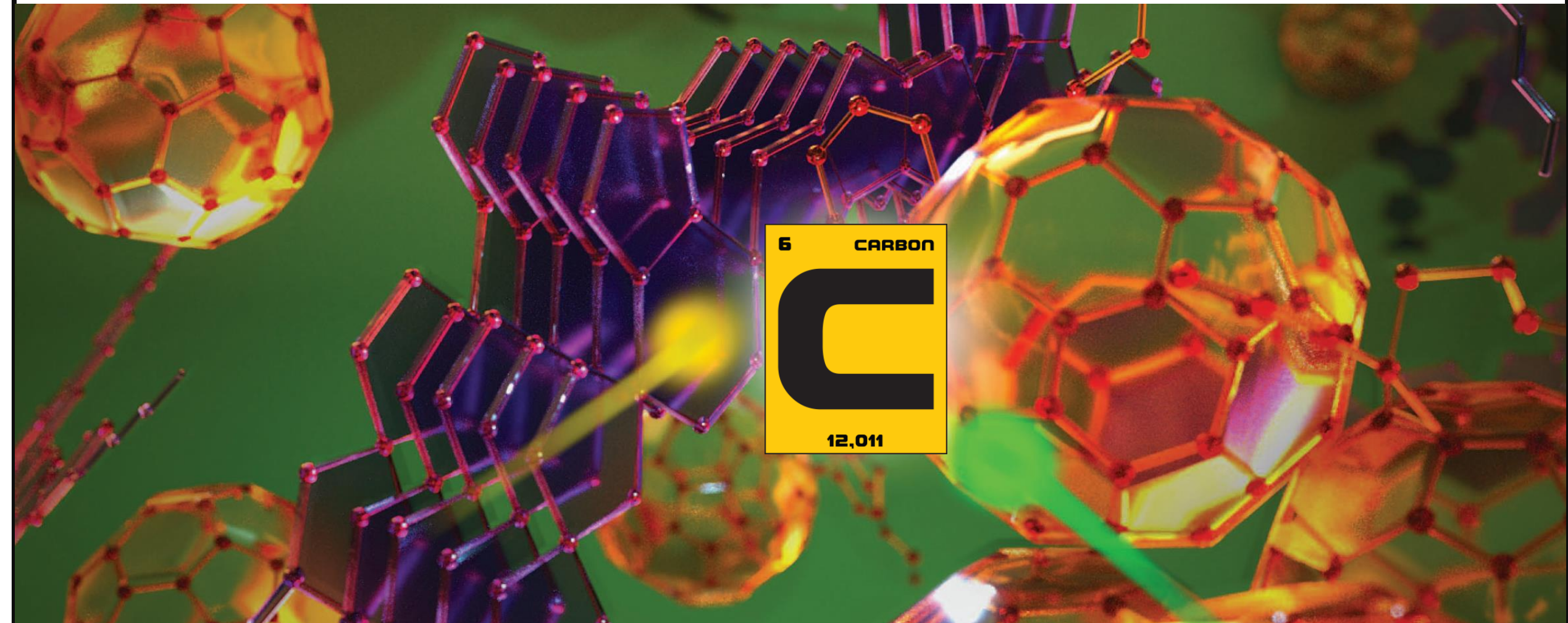
Rocket **EX**periments for **U**niversity **S**tudents



Wat doen die ruimte experimenten voor mij?

Raketten/ballonnen → ruimte industrie → de wereld





Ons experiment



Organische zonnecellen

Ons experiment



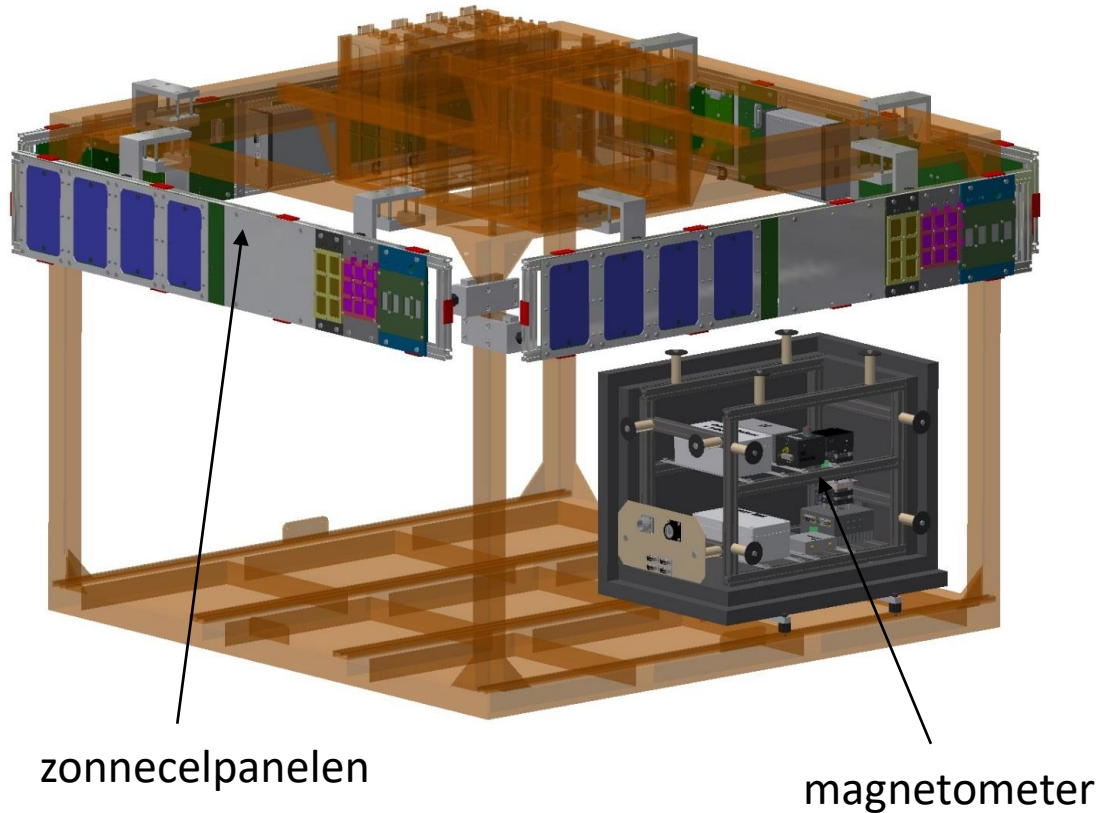
Organische zonnecellen



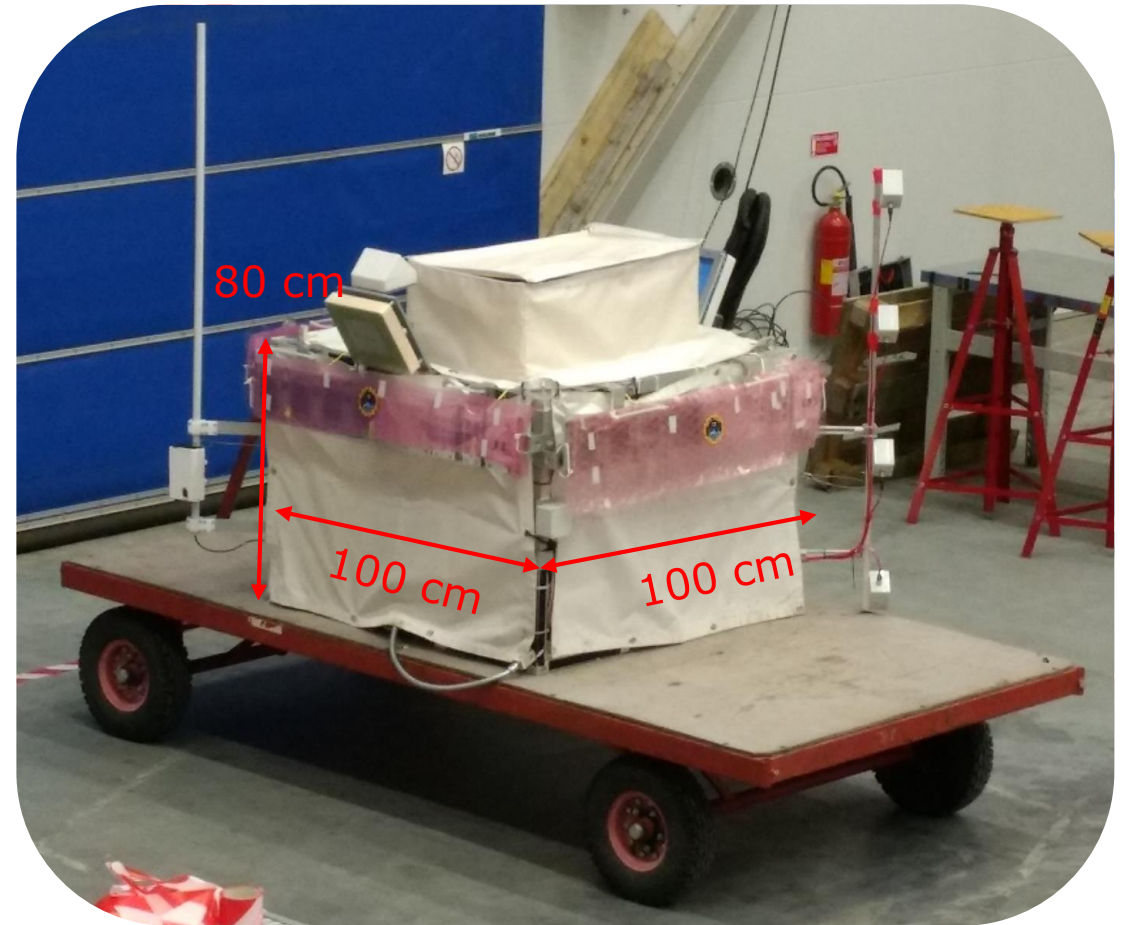
Diamant magnetometer

Ons experiment

Hoe was de ervaring?



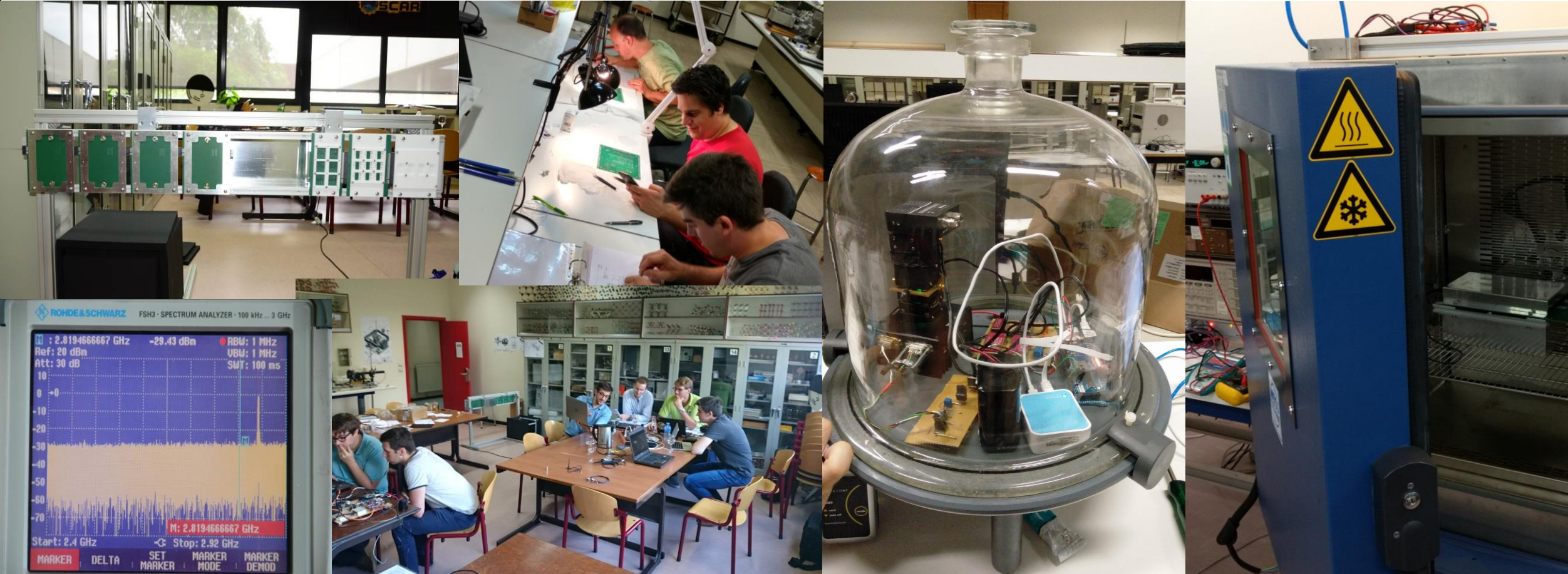
Het design ...



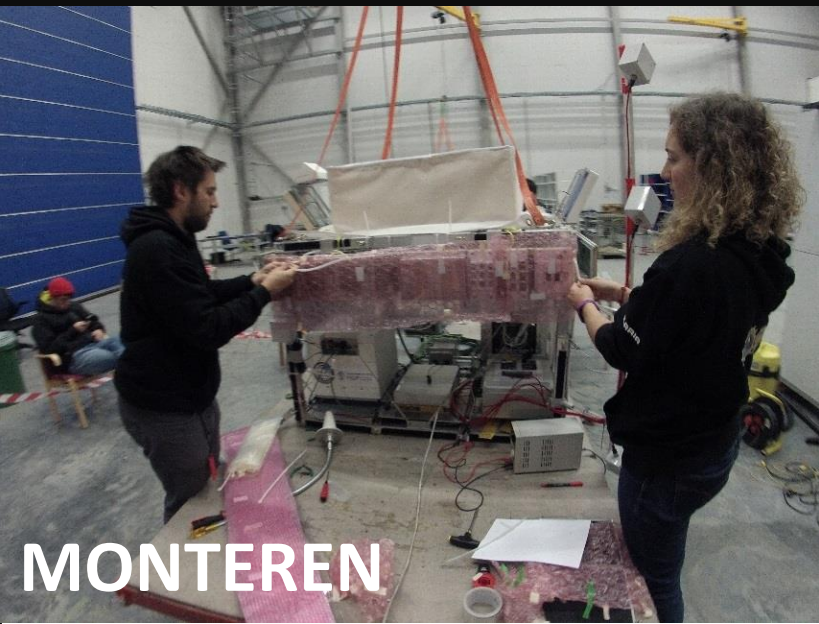
... En het resultaat

Hoe was de ervaring?

Tijdspanne: juli 2015 – oktober 2016



99% van de tijd: testen, testen, (hуilen,) en nog eens testen

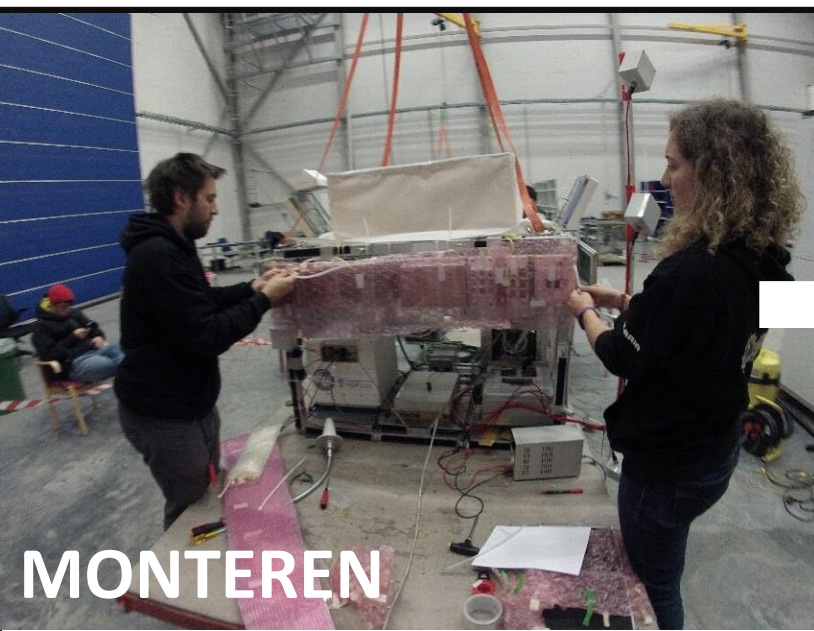


MONTEREN



MONTEREN

CONTROLLEREN



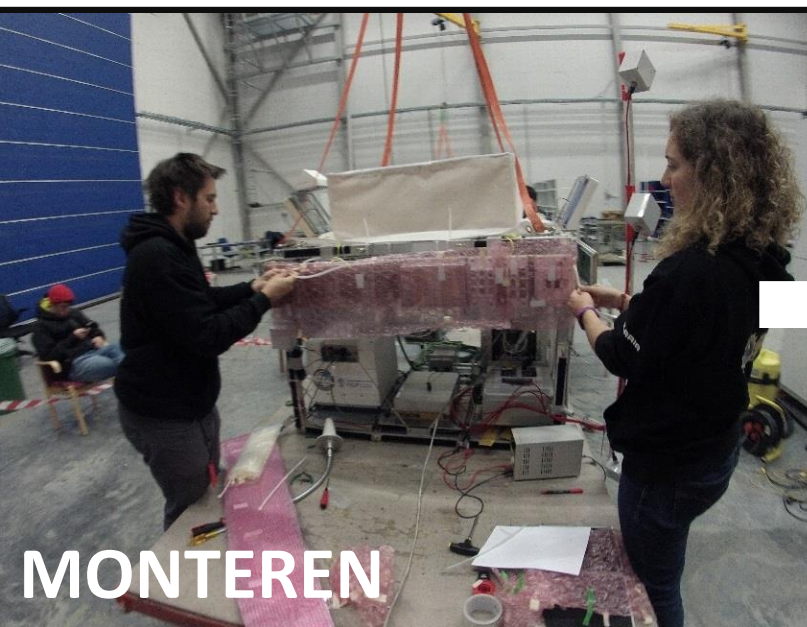
MONTEREN



CONTROLLEREN



TRANSPORTEREN



MONTEREN



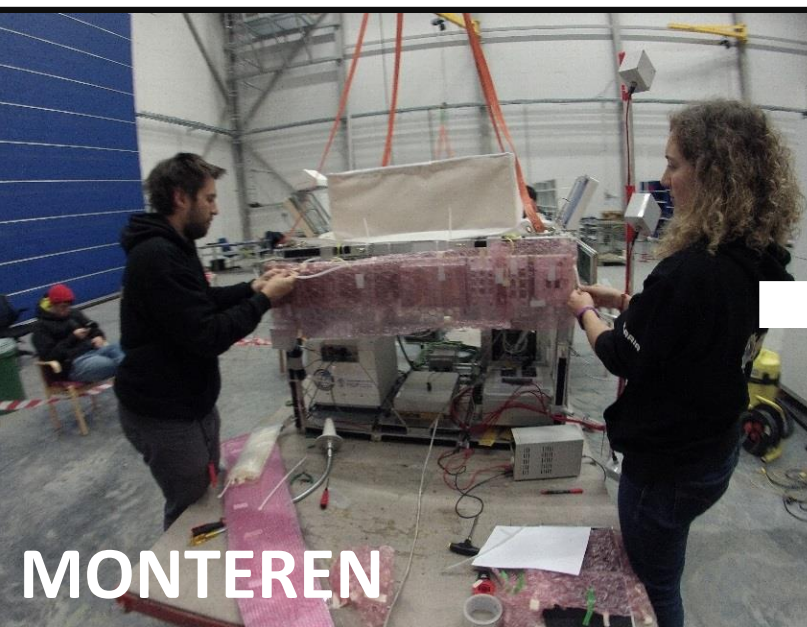
CONTROLLEREN



TRANSPORTEREN



LANCEREN!



MONTEREN



CONTROLLEREN



TRANSPORTEREN



MONITOREN

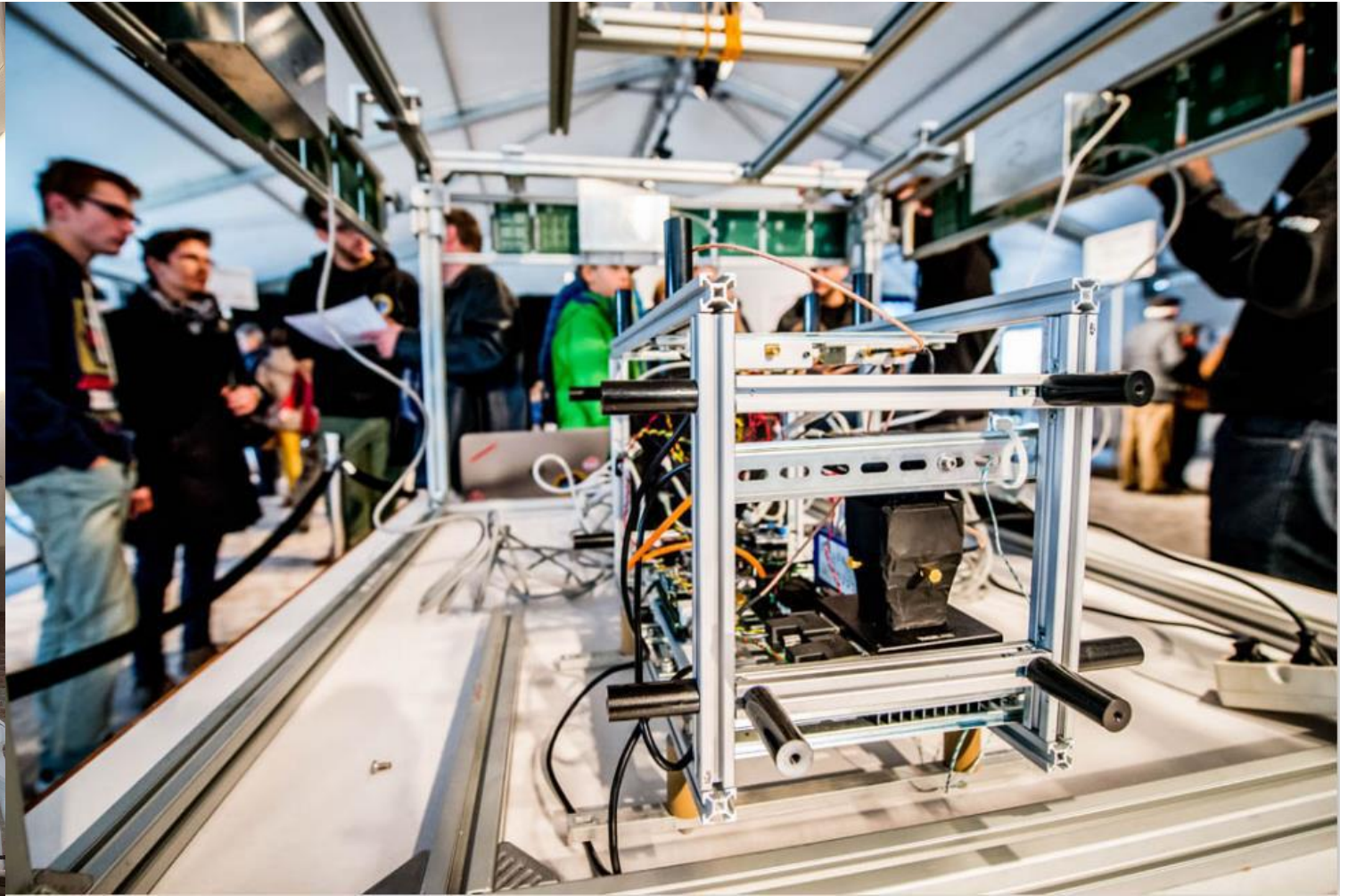


**BIDDEN DAT
EXPERIMENTEN WERKEN**



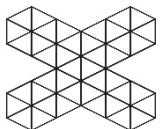
LANCEREN!

OSCAR @ X-fest

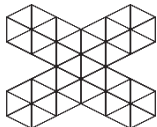


UHASSELT

KNOWLEDGE IN ACTION



OSCAR



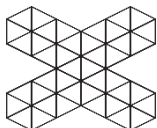
Vragenmoment

BTW: become an astronaut

- Selection rounds
 - 1978-1979
 - 1991-1992
 - 2008-2009
 - Somewhere between 2020-2030? 😊

Requirements:

- Age 27-37
- 20/20 vision
- Outstanding abilities in appropriate scientific disciplines



Europe's space industry

- Where

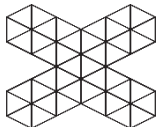
Europe's space industry

- What

Europe's space industry

- Who

Current exciting projects



Failure is *ALWAYS* lurking around the corner

- Rosetta mission

