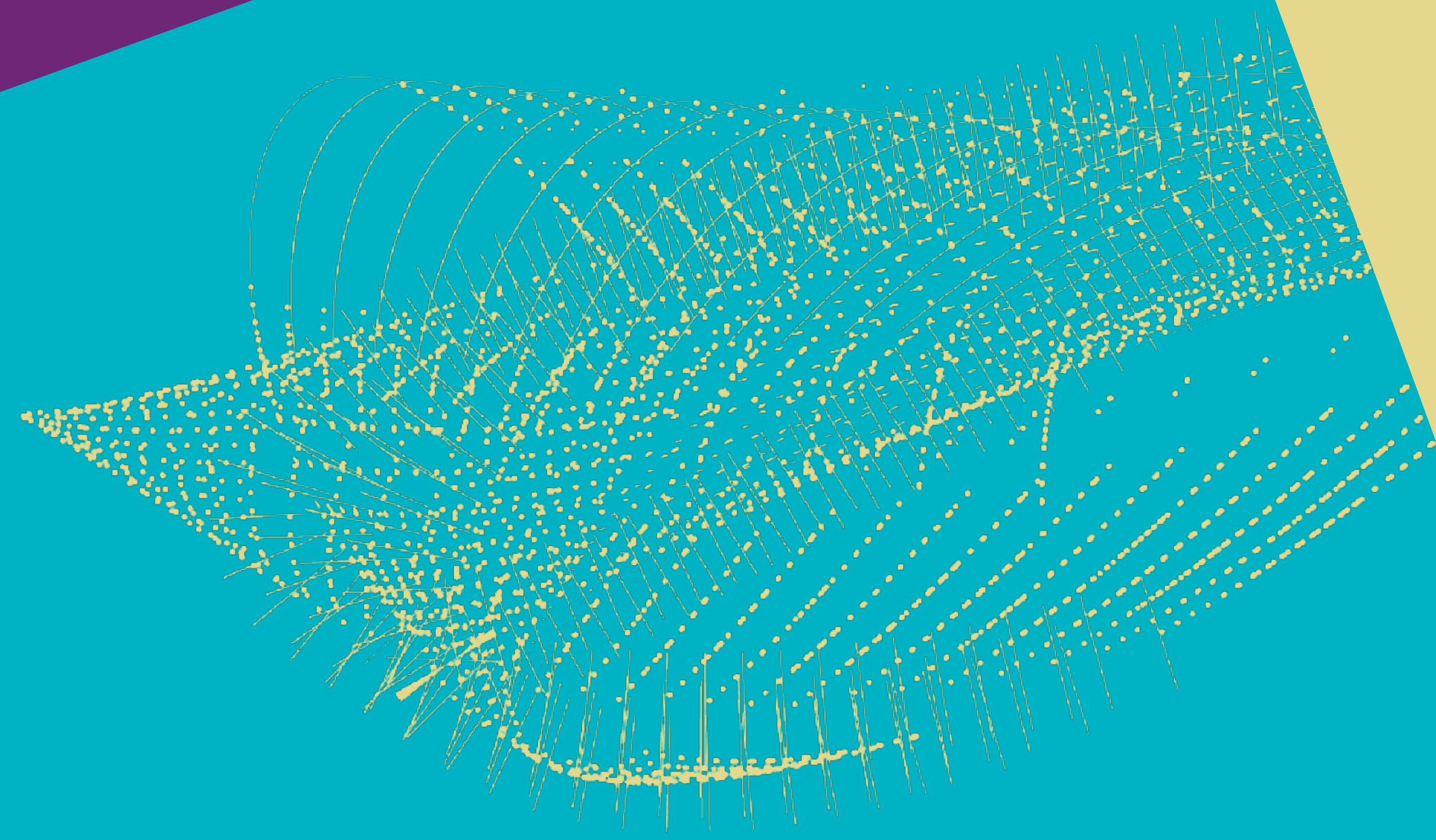


Nikhef

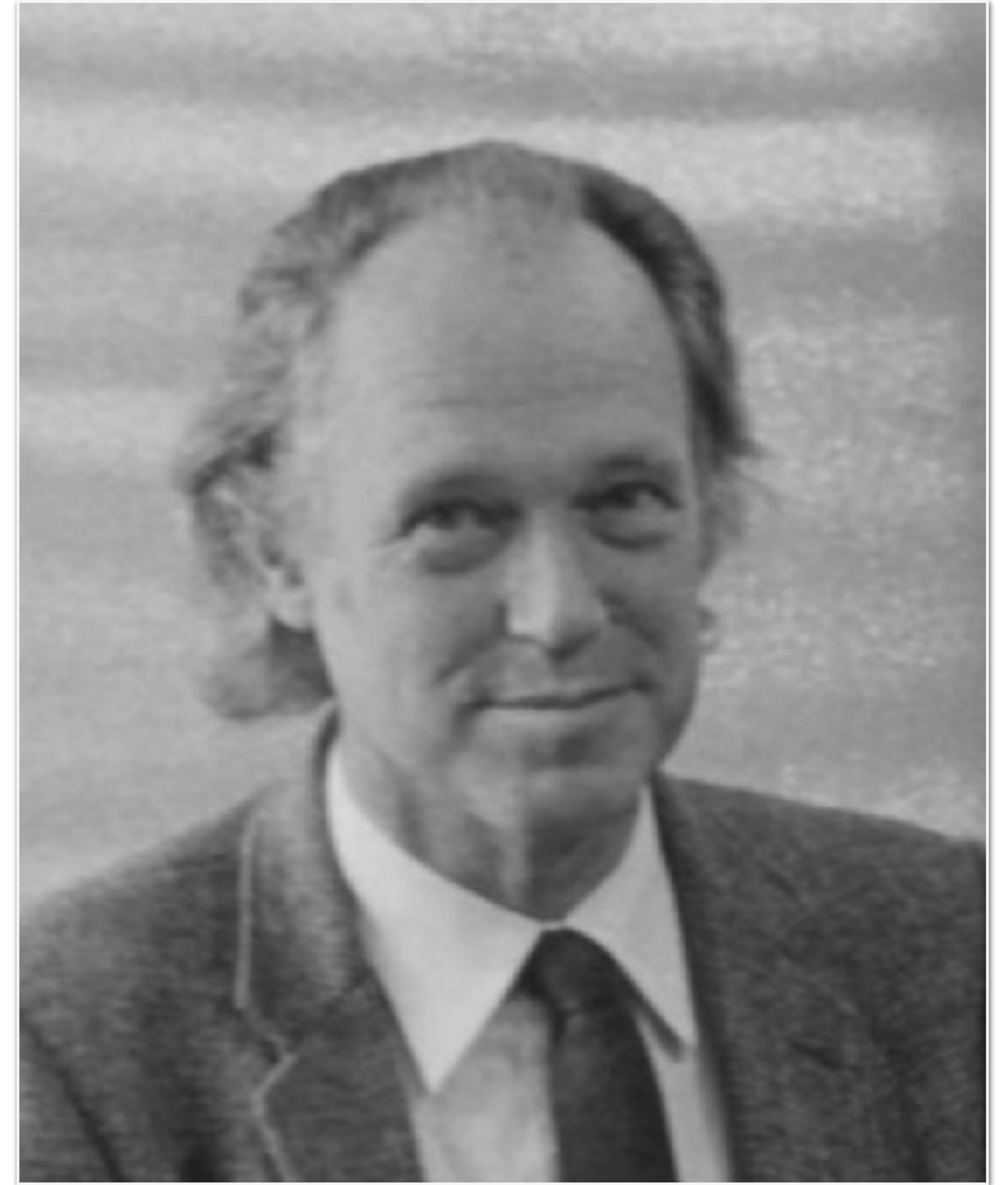


SEPTEMBER 13, 2018

REFLECTIONS

BERT DIDDENS (1928-2018)

Director Nikhef-H
1976 – 1982





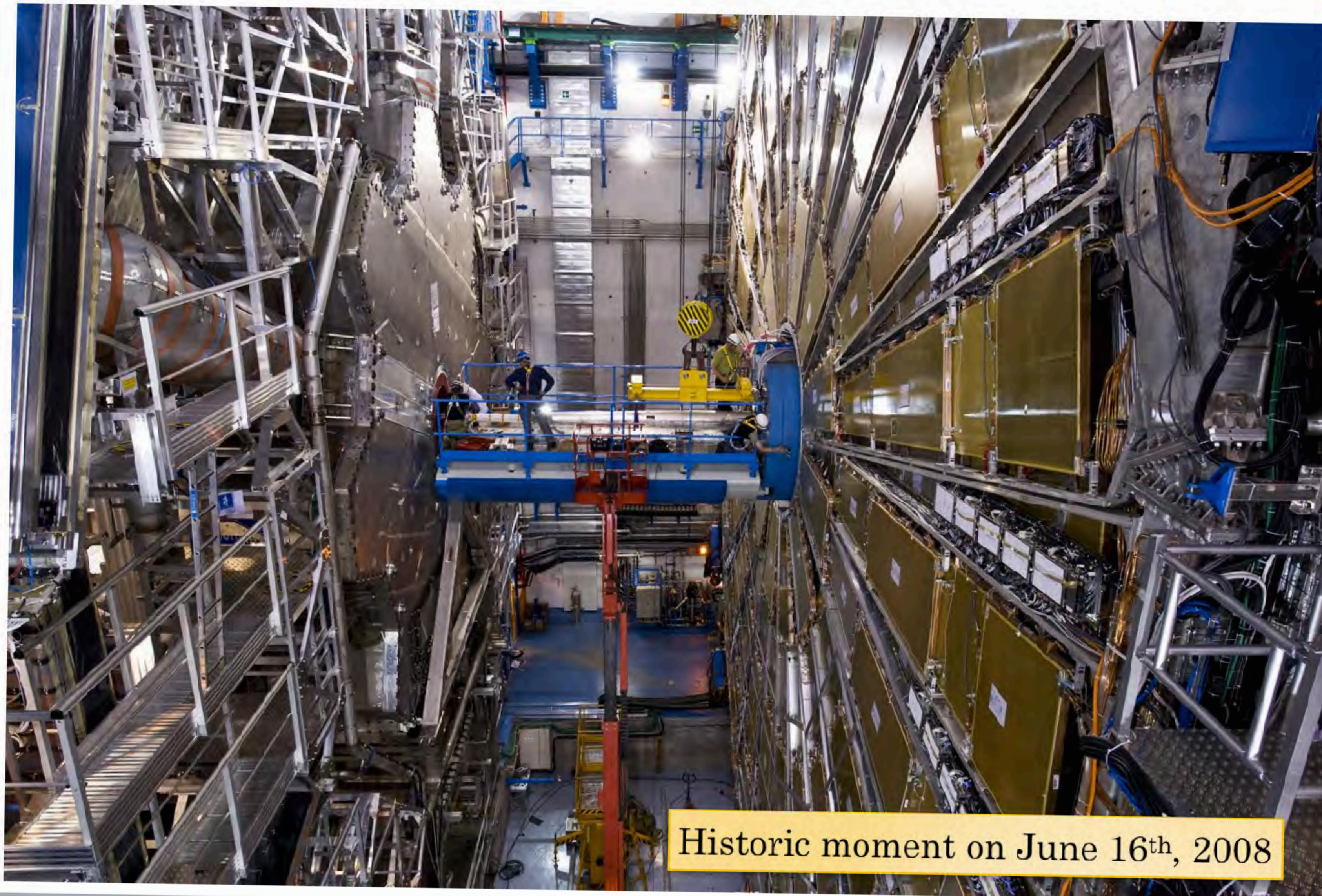
SCIENCE

10 YEARS
AGO

ATLAS ready!



CLOSURE OF THE BEAM-PIPE



Historic moment on June 16th, 2008



SEPTEMBER 10, 2008: CIRCULATING BEAMS

10 YEARS
AGO



First beam:
Press events
at Nikhef &
CERN

10 YEARS
AGO

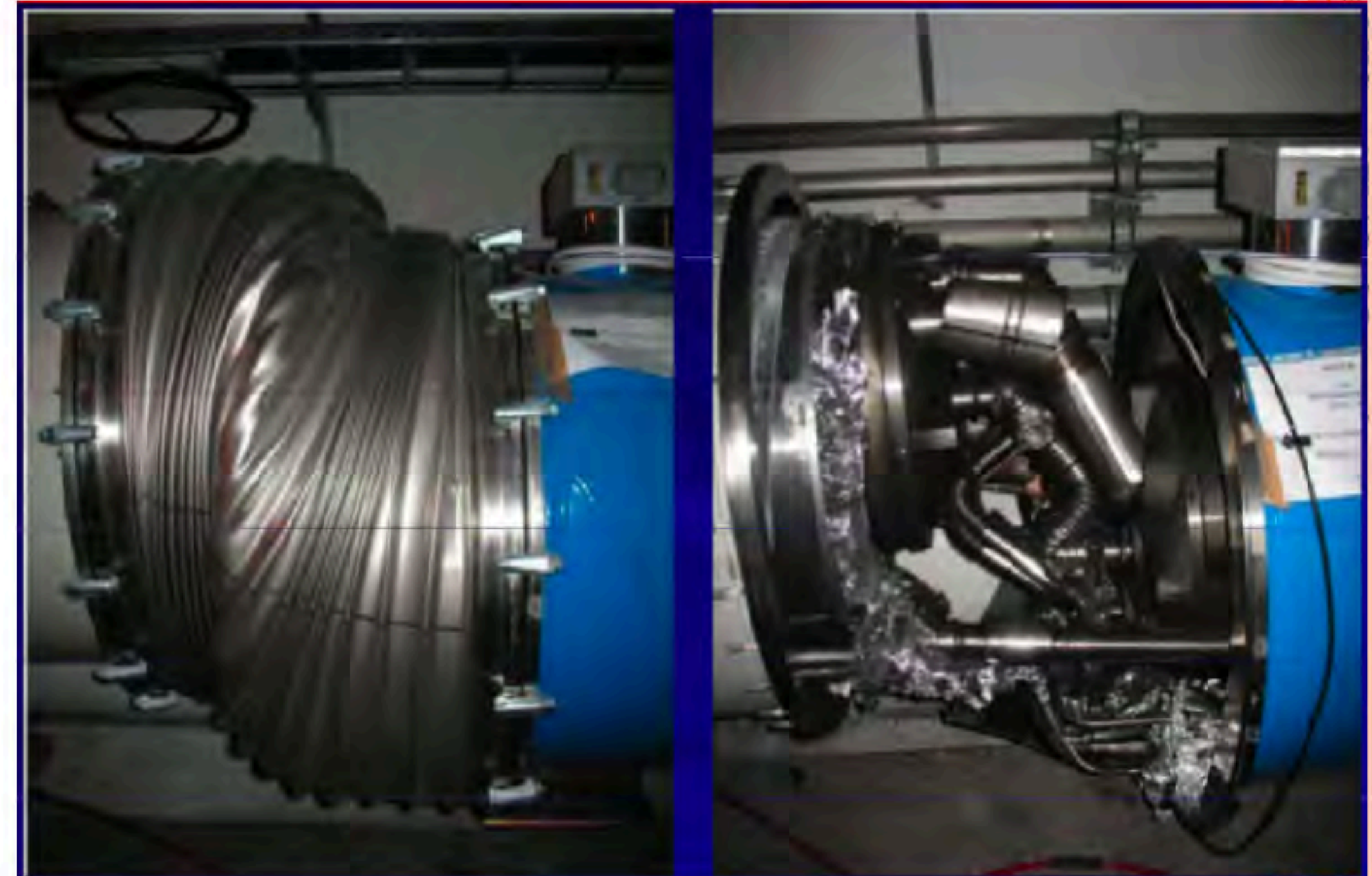
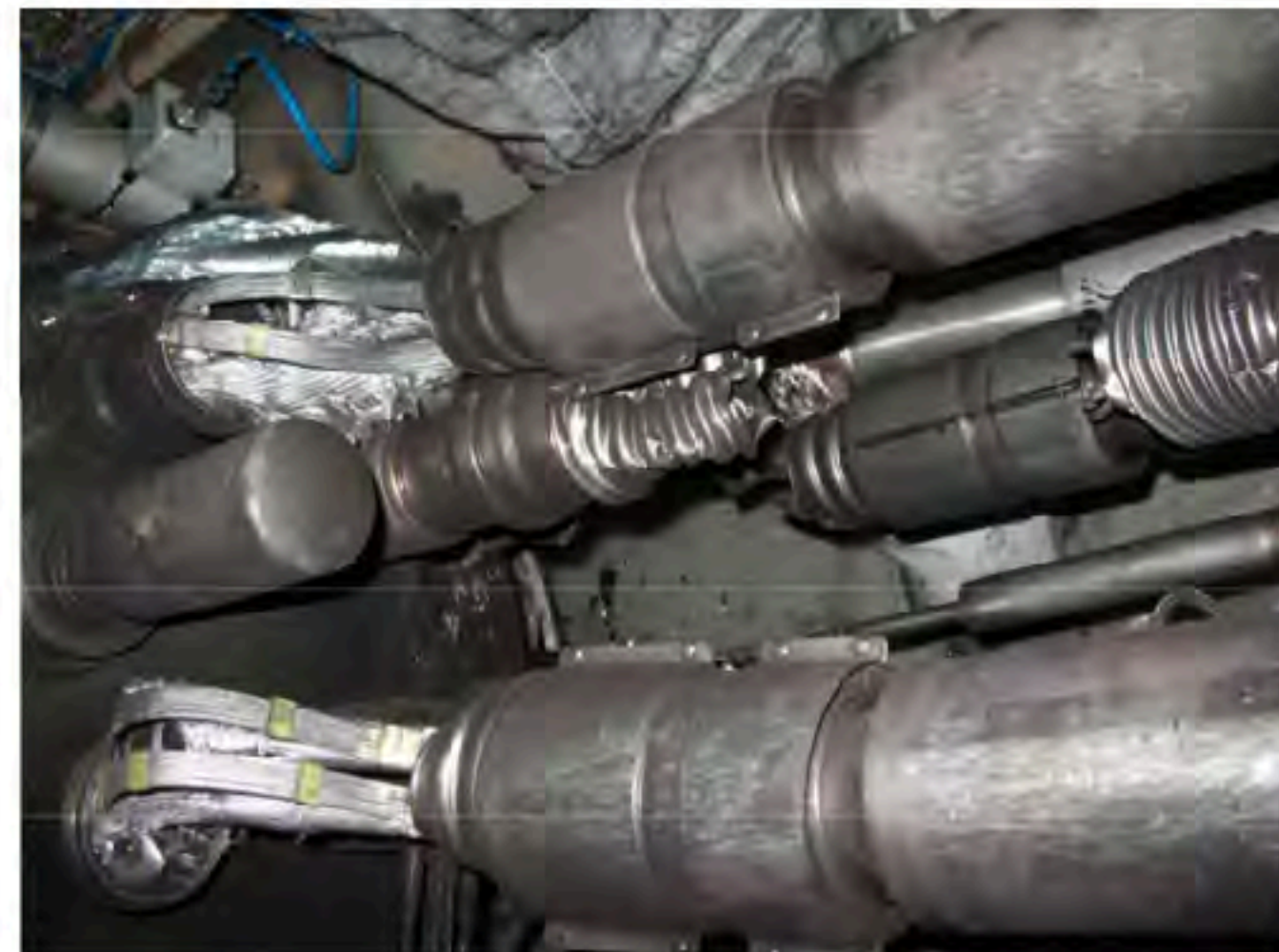
LHC accident

More than a
year delay

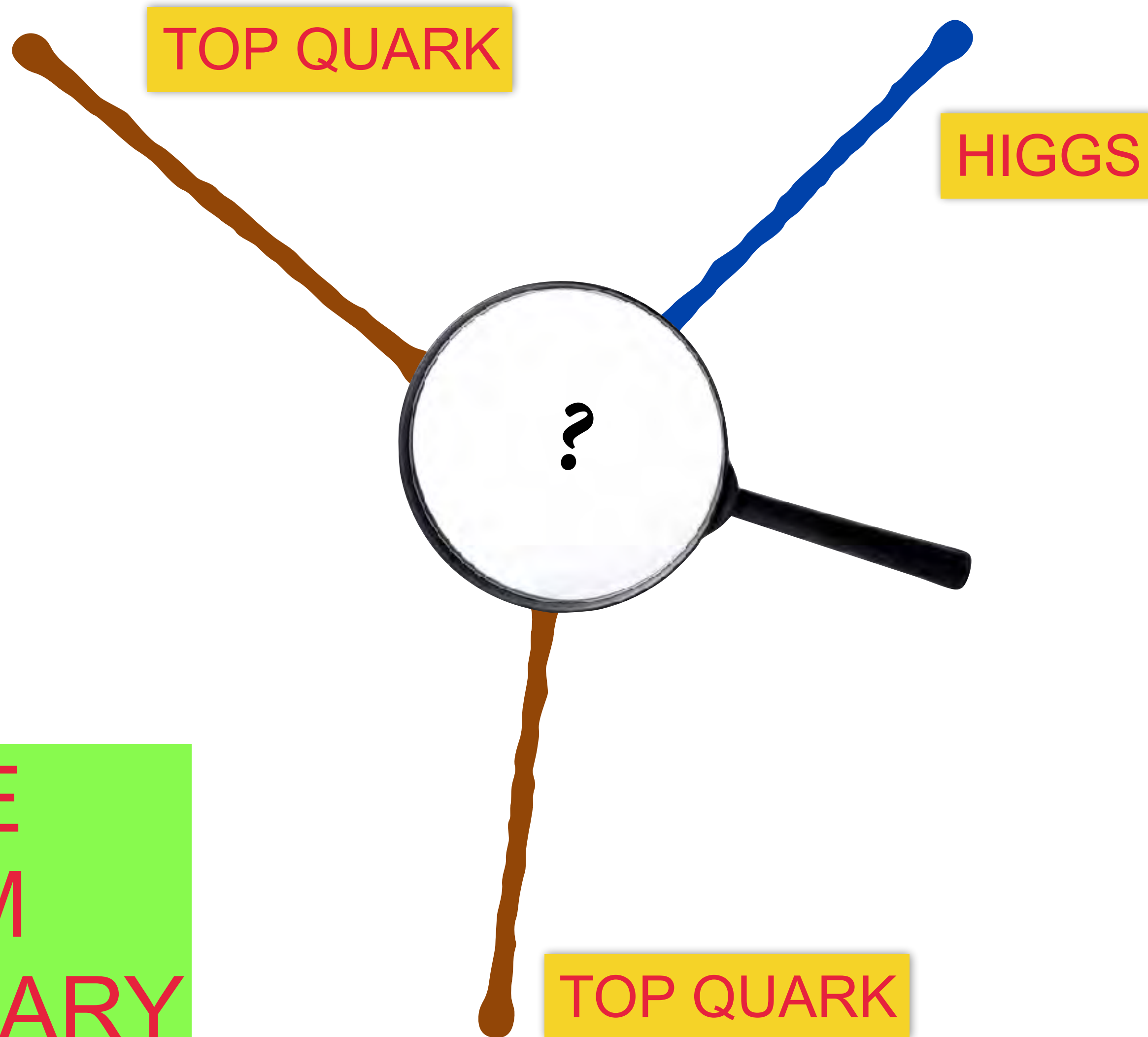


INCIDENT ON 19TH SEPTEMBER 2009

- LHC decided to use a few days of down-time to finish work on missing powering tests in sector 3-4
- At 8.7 kA (corresponding to ~ 5.1 TeV) a resistive zone ($200 \text{ n}\Omega$) appeared in superconducting connection
 - Most likely, an electrical arc developed, which punctured the Helium enclosure
 - Large pressure waves along the accelerator



Botsing van giganten



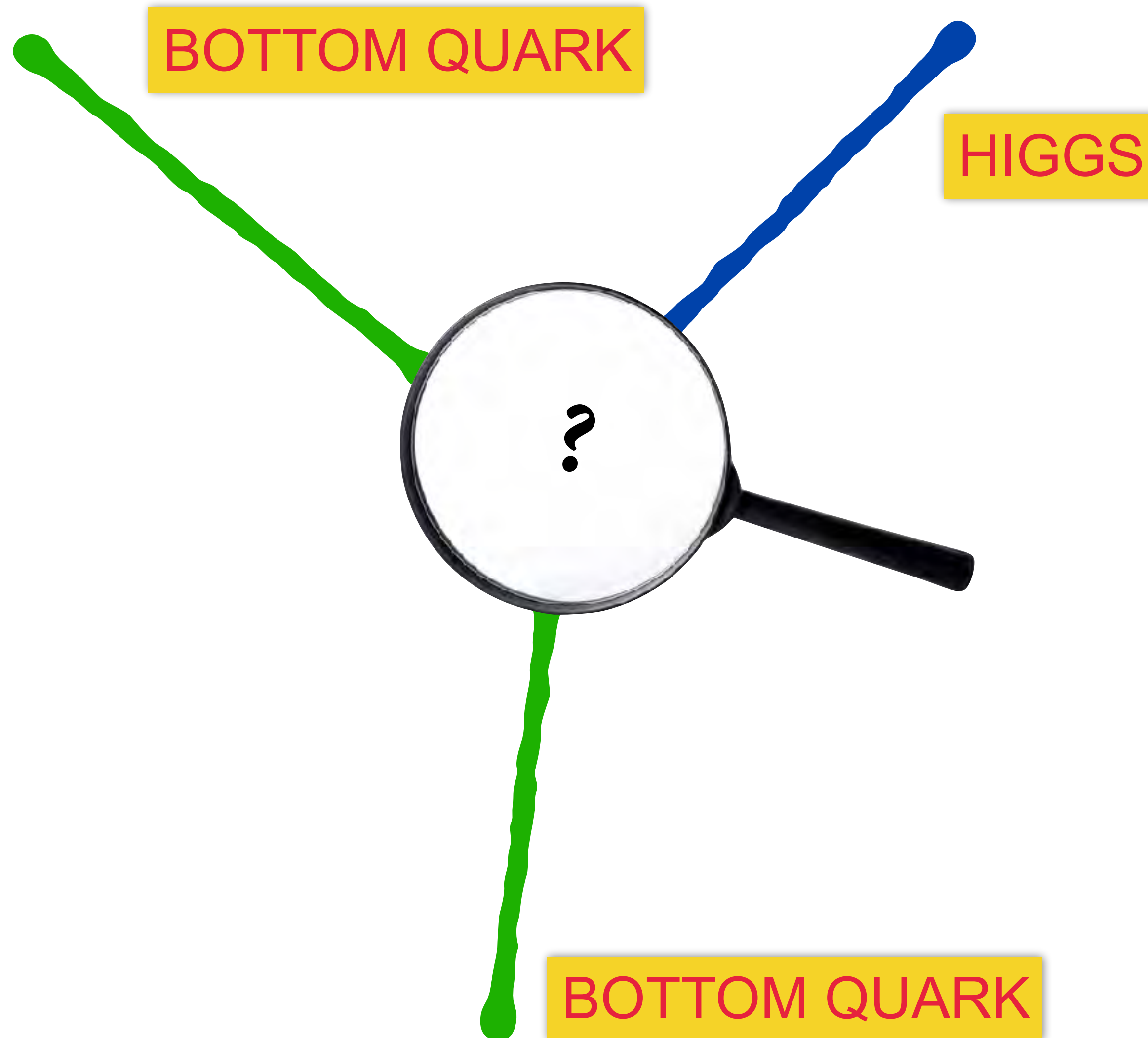
SLIDE
FROM
JANUARY

- ATLAS resultaat
 - ttH - zwaarste deeltjes
 - eerste (grobe) metingen



TIM WOLF

HIGGS TOPS BOTTOM



HANNAH ARNOLD

PRESTIGIOUS PUBLICATION

Sacha Caron in Nature



The image shows a screenshot of a news article on the Nature website. The header features the 'nature' logo and navigation icons for Search, E-alert, Submit, and Login. The article is dated 14 August 2018 and is titled 'LHC physicists embrace brute-force approach to particle hunt'. The author is Davide Castelvecchi.

nature
International journal of science

Search E-alert Submit Login

News & Comment Research

News Opinion Research Analysis Careers Books & Culture

NEWS · 14 AUGUST 2018

LHC physicists embrace brute-force approach to particle hunt

The world's most powerful particle collider has yet to turn up new physics – now some physicists are turning to a different strategy.

Davide Castelvecchi

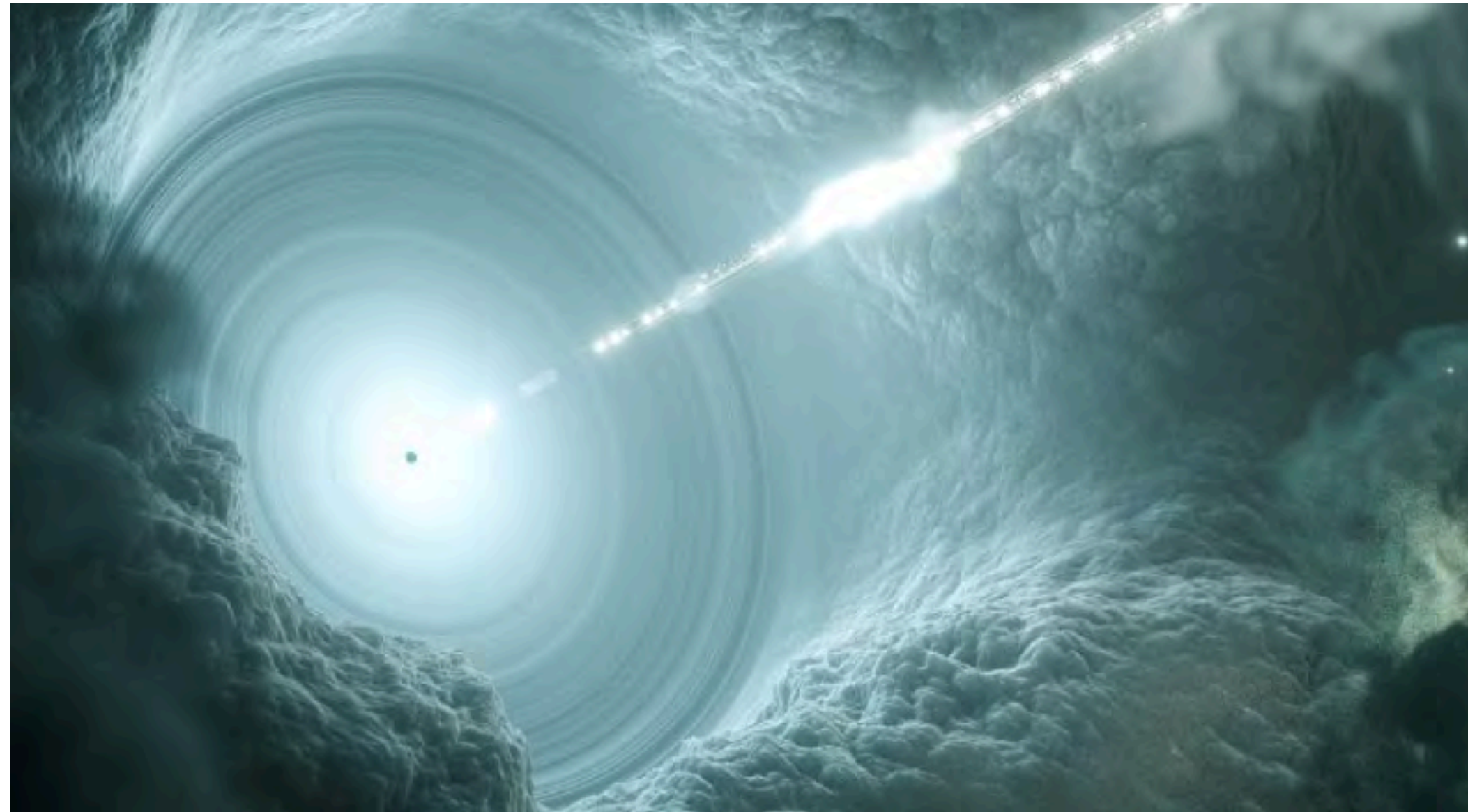
NEUTRINO TELESCOPE

Neutrino coming from a cosmic source - in Orion

- ANTARES involved

Another start for *multi-messenger* physics

Good news for KM3NeT: a golden future!

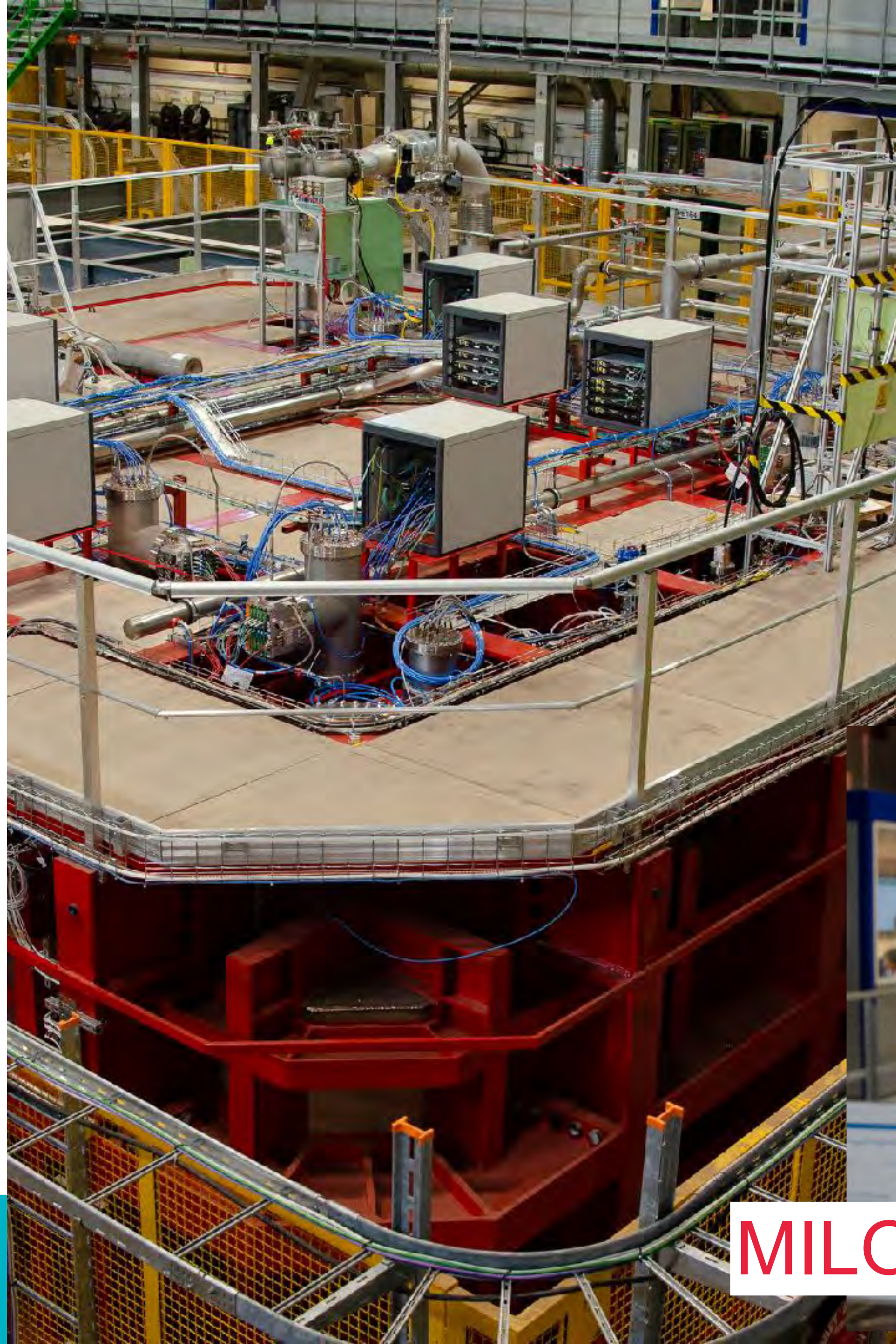


DOROTHEA SAMTLEBEN

- Eerste bundel van SPS in augustus
– FELIX DAQ systeem

SPIEGELMOMENT - FEBRUARI 2018





TODAY START OF PROTODUNE

Tank filled with pure liquid Argon

- 840.000 kg
- 7.5 meters high in tank
- 186 degrees C below 0

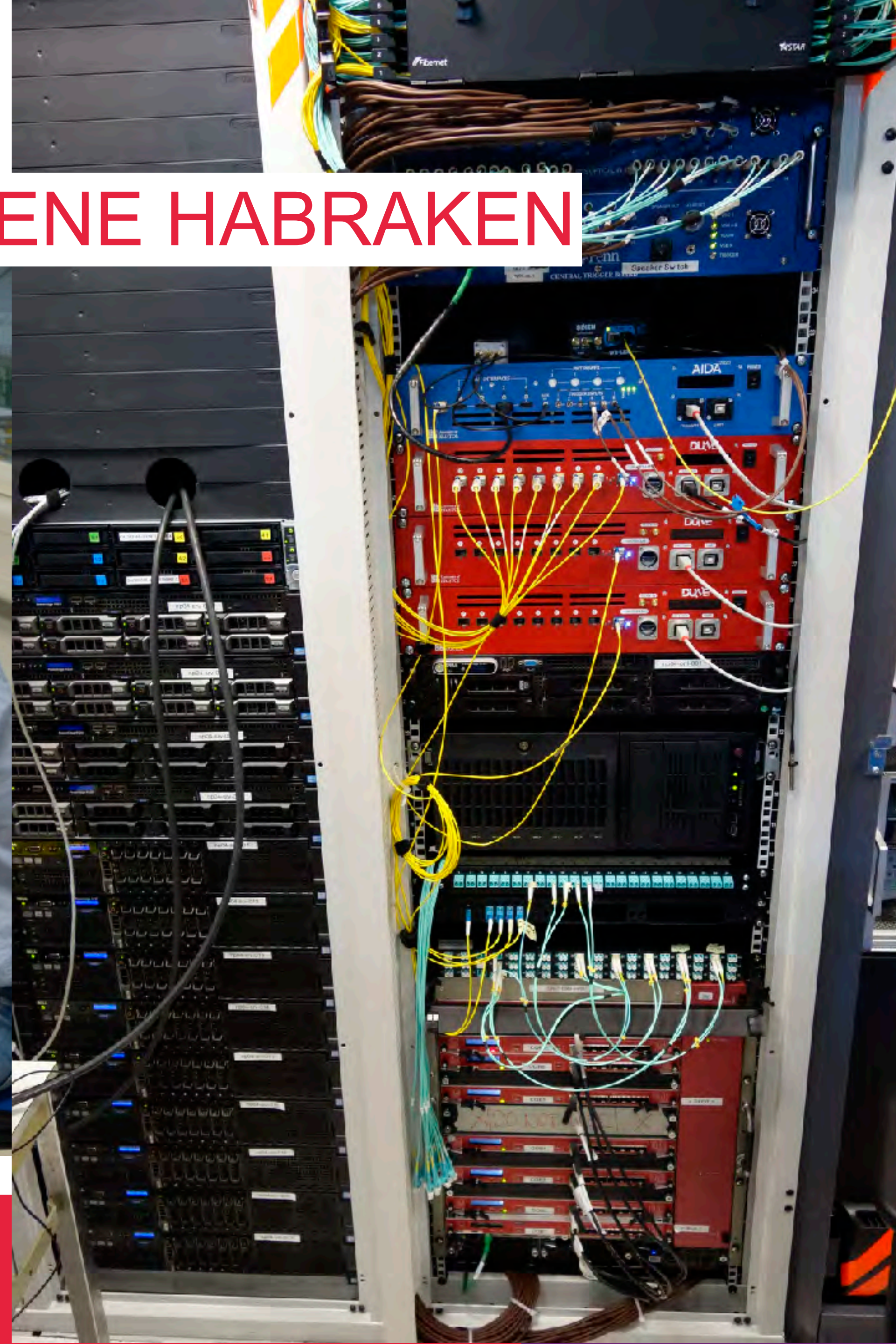
First results coming months



MILO VERMEULEN - HENK BOTERENBROOD

FELIX READOUT - READY

ANDREA BORGA, FRANS SCHRODER, RENE HABRAKEN



Prize winners kneeling for Eric



LIGO-VIRGO MEETING IN MAASTRICHT

Maastricht: centre of gravitational wave research

Gideon Koekoek wordt gedreven door gravitatie

29-08-2018 om 06:50 door Vikkie Bartholomeus



Afbeelding: Rob Oostwegel

LVC MEETING
4-7 SEPTEMBER 2018
MAASTRICHT, THE NETHERLANDS



[HOME](#) [ABOUT LVC MEETING 2018](#) [PROGRAMME](#) [REGISTRATION](#) [TRAVEL & ACCOMMODATION](#) [OUTREACH](#)



PREPARING EINSTEIN TELESCOPE

ETpathfinder: testfacility for ET
in Maastricht -

Project funding not only OCW-NWO

- Interreg regional funding 4 ME
- Province co-funding 3.5 ME
- In addition funding for drilling a hole
- EZK to study impact on industry return



PARTNERS IN THE AREA

A case for a bid for
hosting Einstein Telescope
in EU region Meuse-Rhine



Partners

- Antwerpen, Gent, VUB, ULB, Leuven, Louvain, Hasselt, Liege, RWTH Aachen, TU/e, (Hamburg)
- Signatures to collaborate this afternoon in Maastricht

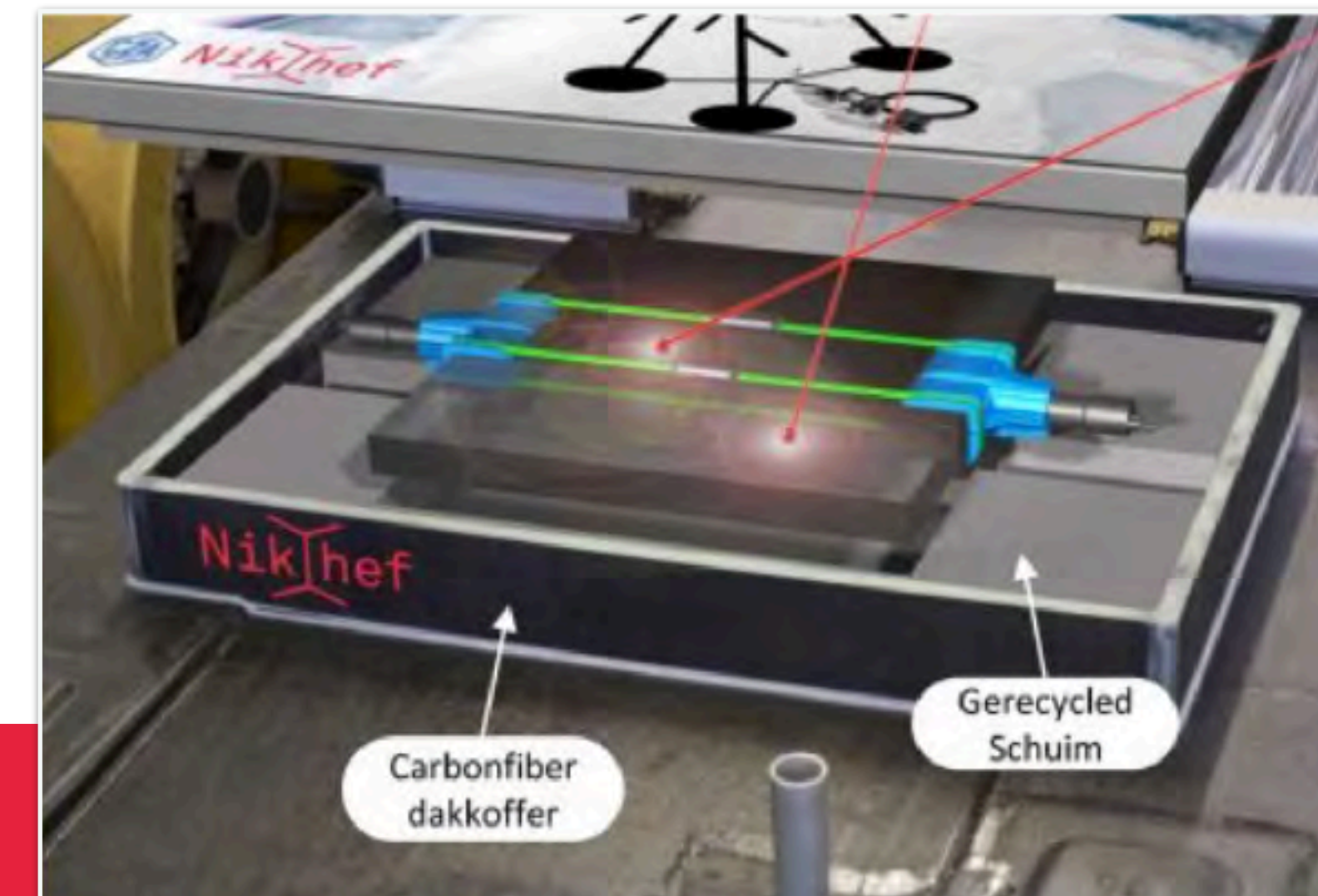
CLEAN2ANTARTICA

Trip to South-Pole
toward a cleaner world

- All recycled materials

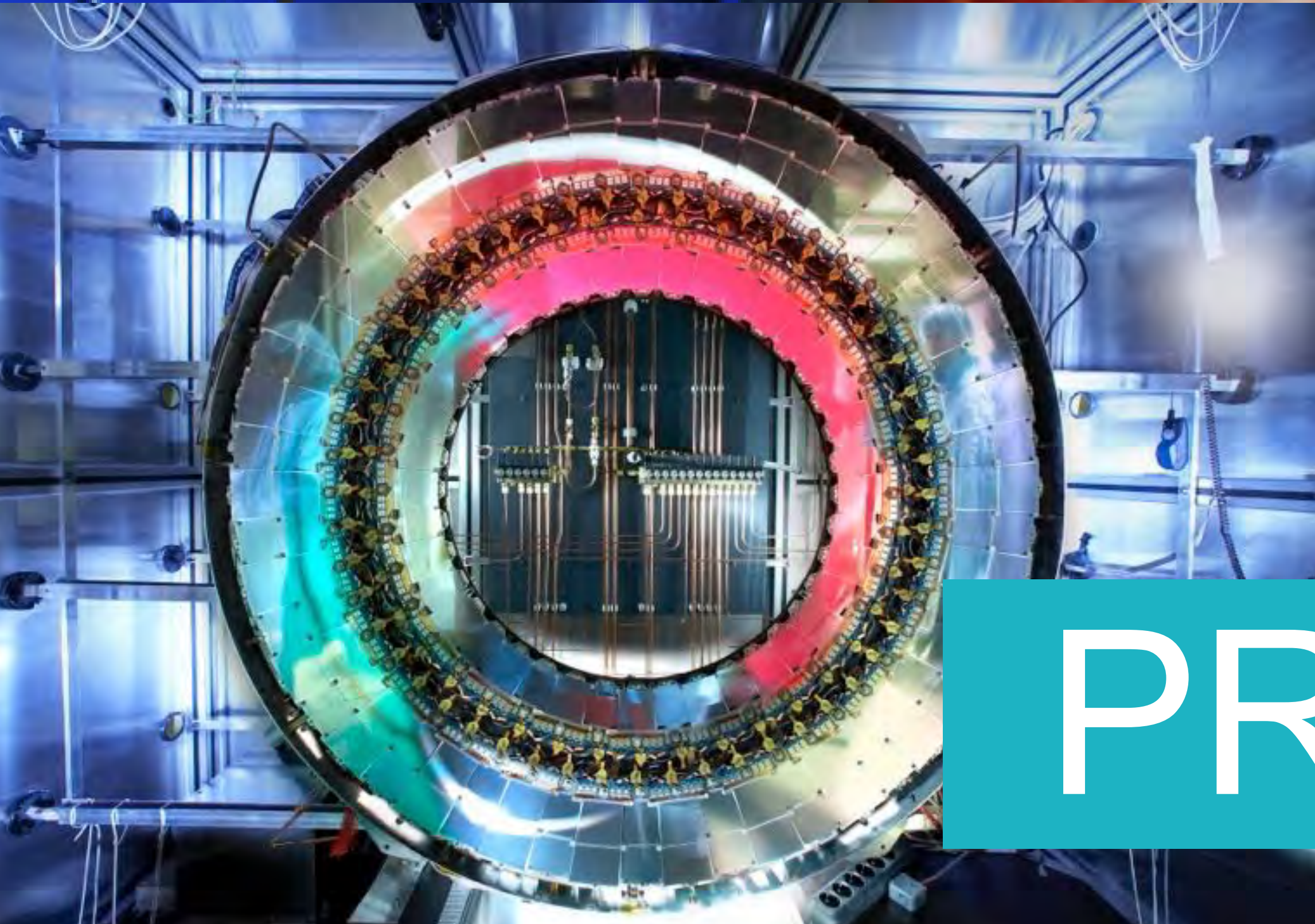
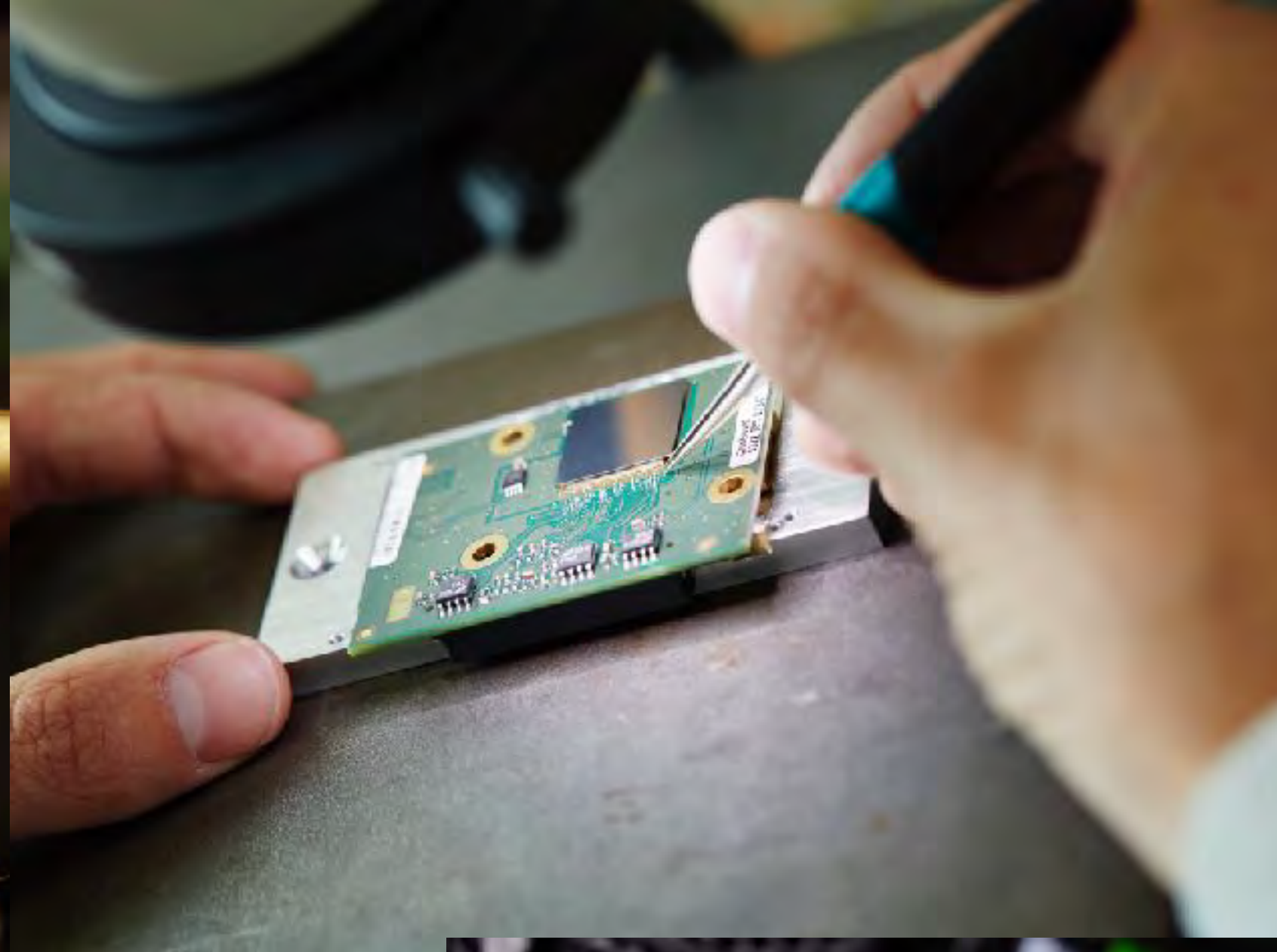
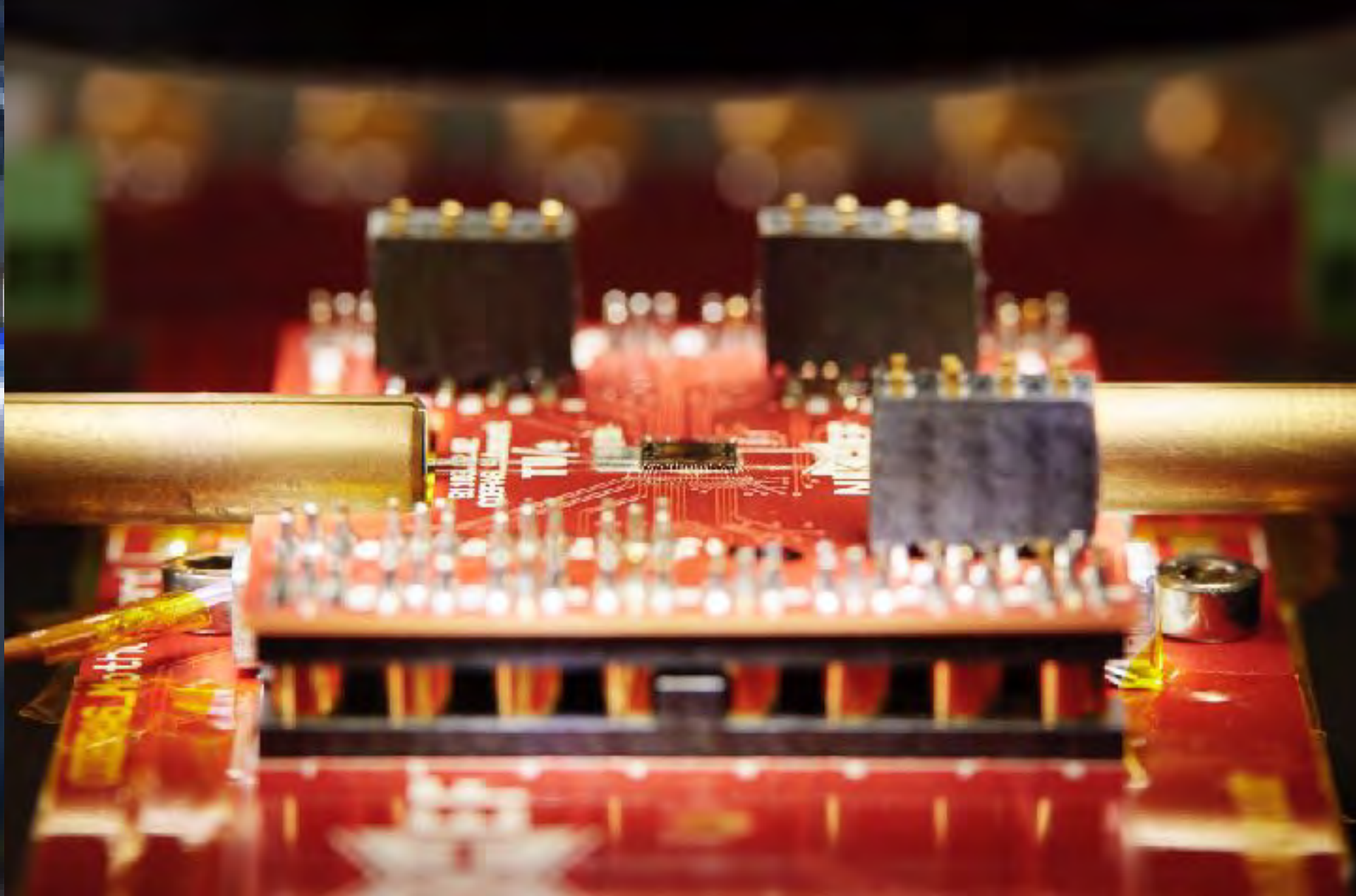
HISPARC detectors from Nikhef

- See <https://www.nikhef.nl/actueel/clean2antarctica/>
- Edwin en Liesbeth ter Velde make a trip of 6 weeks



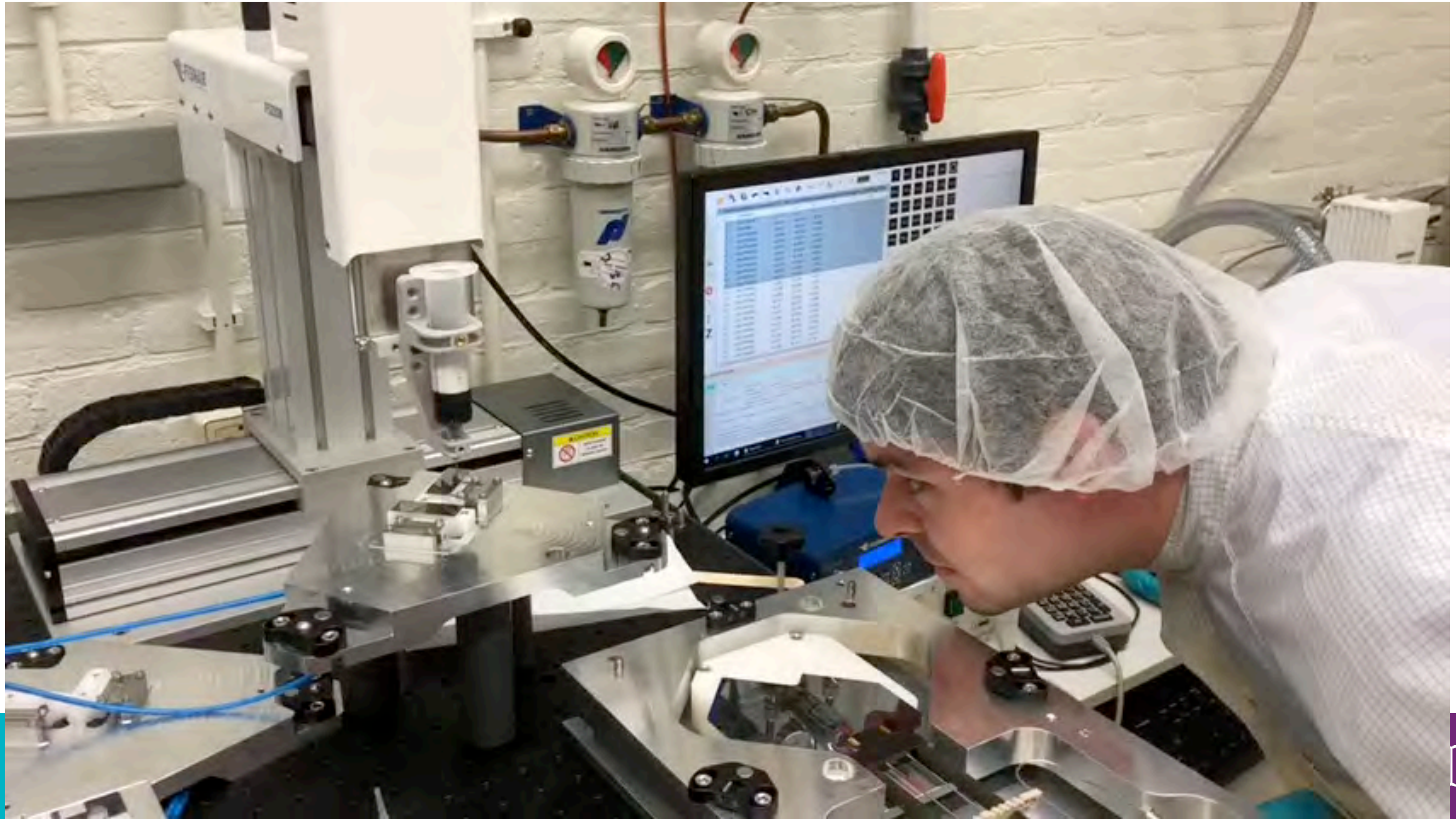


C2A



PROJECTS

DANIEL HYNDS IS GLUEING THE LHCB MODULES

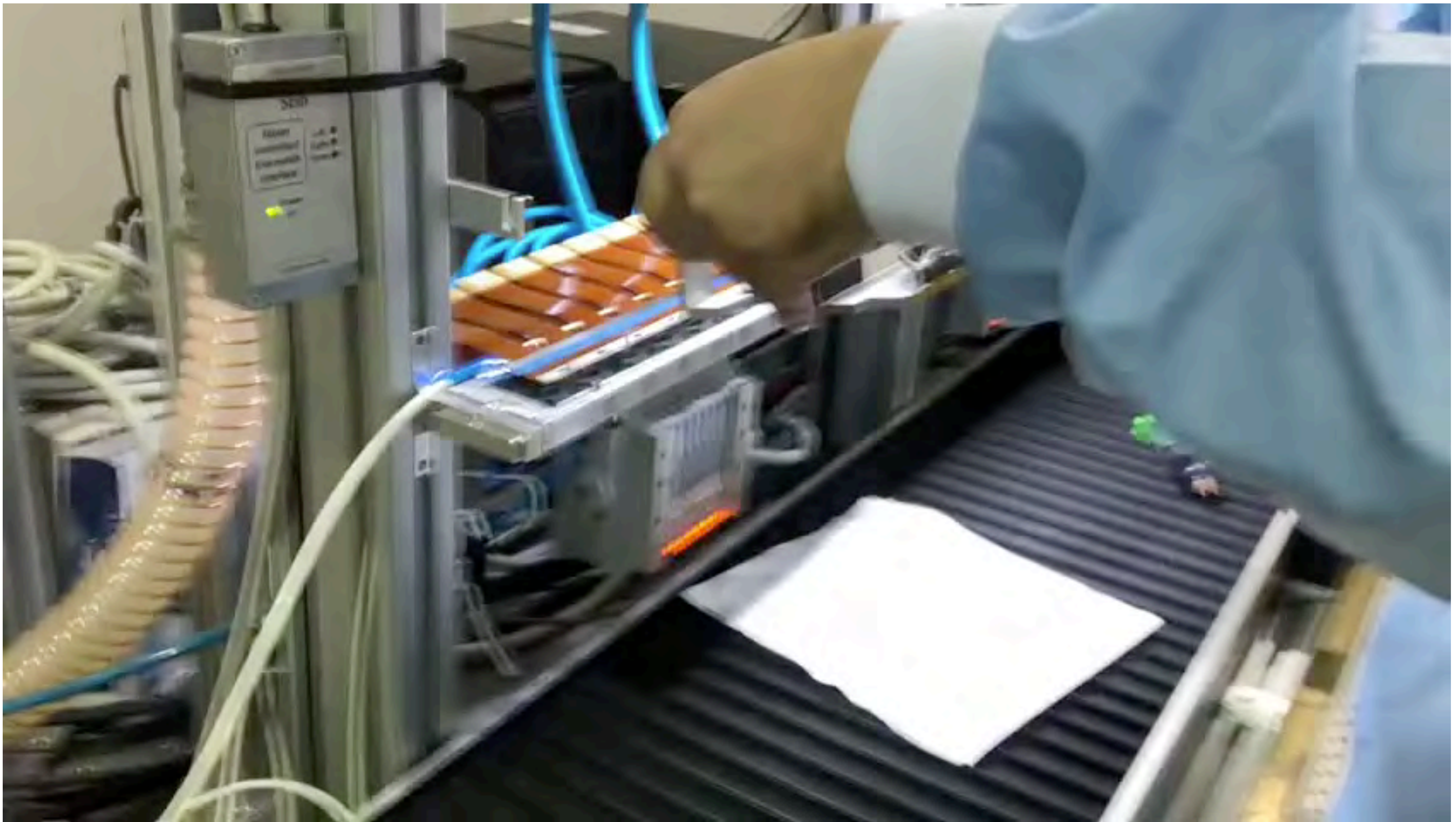




LHCB GLUE

SciFi:

Roman Greim
gluing the
SiPM
on the coldbar



LHCB SCI-FI MODULES

Nikhef produces
40 modules

Transport to CERN
of first 20 modules

All done by Xmas





waves do exist and can be measured



THIS WAY UP

Linde

FRANCE

CONTENIR EN ALUMINUM
PROTEGERE LA CARGA
ENTRABAR EL ACCESO
AL CARGAMENTO PARA
UN USO SEGURO

LIFT
HERE

SCZ 28PM
SCHMITZ



Zwa



SCIFI AT CERN

Preparing the arrival
of the modules

- Prototype C-frame

Safety issues
onder control

- Bram van der Gaag



WIM GOTINK, MOHAMMED VAN DER KRAATS, WILCO VINK

CT - KIPSATE, A NEW COMPUTING CLUSTER

Grid and Stoomboot

- Replacement of old machines
 - Dell machines with AMD Epyc processors
 - 32 cores/machine
 - 256 GB RAM/machine,
 - 3.2 TB SSD disk/machines with fast 25 Gbit/s/machine network.
- Stoomboot: 864 cores
- GRID: 1728 cores
- Name of cluster is "kipsaté".



COLLABORATION WITH GRONINGEN

At Nikhef:

- Computing backup of Nikhef
- Computing backup of University of Groningen

At Groningen:

- Computing backup of Groningen
- Computing backup of Nikhef

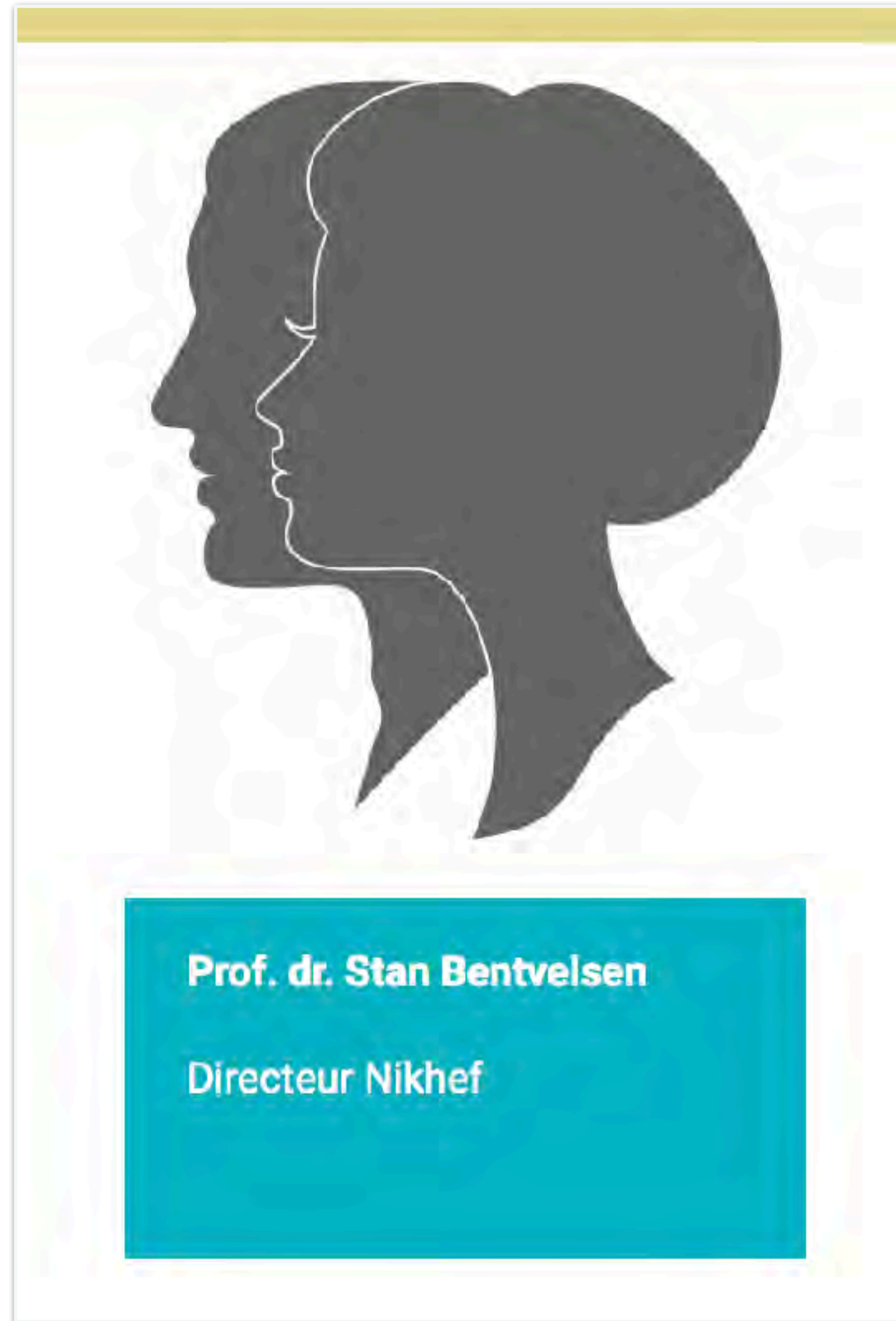
Why?

- Groningen wants a backup outside earth quake region
- Nikhef wants a backup above sea level

Increased efficiency and cost reduction



CT & COMMUNICATIONS: GDPRP



General Data Protection Regulation

Effective since May this year

Consequence: your picture is no longer visible from 'outside Nikhef'

My personal opinion:


Regretful!

We lose transparency to the outside world

CT & COMMUNICATIONS: GDPRP

If you want to show your picture to the outside world:

- 1) goto web site <https://sso.nikhef.nl/chsh/>
- 2) change your profile settings

Unix public full name (GECOS)	Stan Bentvelsen, NIKHEF H2.41, +31 20 592 5001 Bentvelsen, H232, +31205925001, +31651111284	 (e.g.: Stan
Profile preferences	Nikhef photo gallery :	<input type="radio"/> Do not show my picture publicly <input checked="" type="radio"/> Please do show my picture publicly

It may take some time before this is becomes effective



PEOPLE

NEW STAFF @ NIKHEF

Carvalho Akiba (Brazil)

We call him “Kazu”

Instrumentation,
coming period in
LHCb



NIKHEF - LONG STAY

Ronald Blindeman
remains
at the CT helpdesk





ILONA JAEQX





ELLIS ROOS - HR



NELSON DE GAAY FORTMAN -
MASTER STUDENT

PELLE SPEET
WINDESHEIM



GIJS GORT
LIS



A portrait of a young man with dark, wavy hair, smiling slightly. He is wearing a green polo shirt. The background is dark and out of focus.

MART VAN DUIJVENDIJK
HOGESCHOOL ROTTERDAM



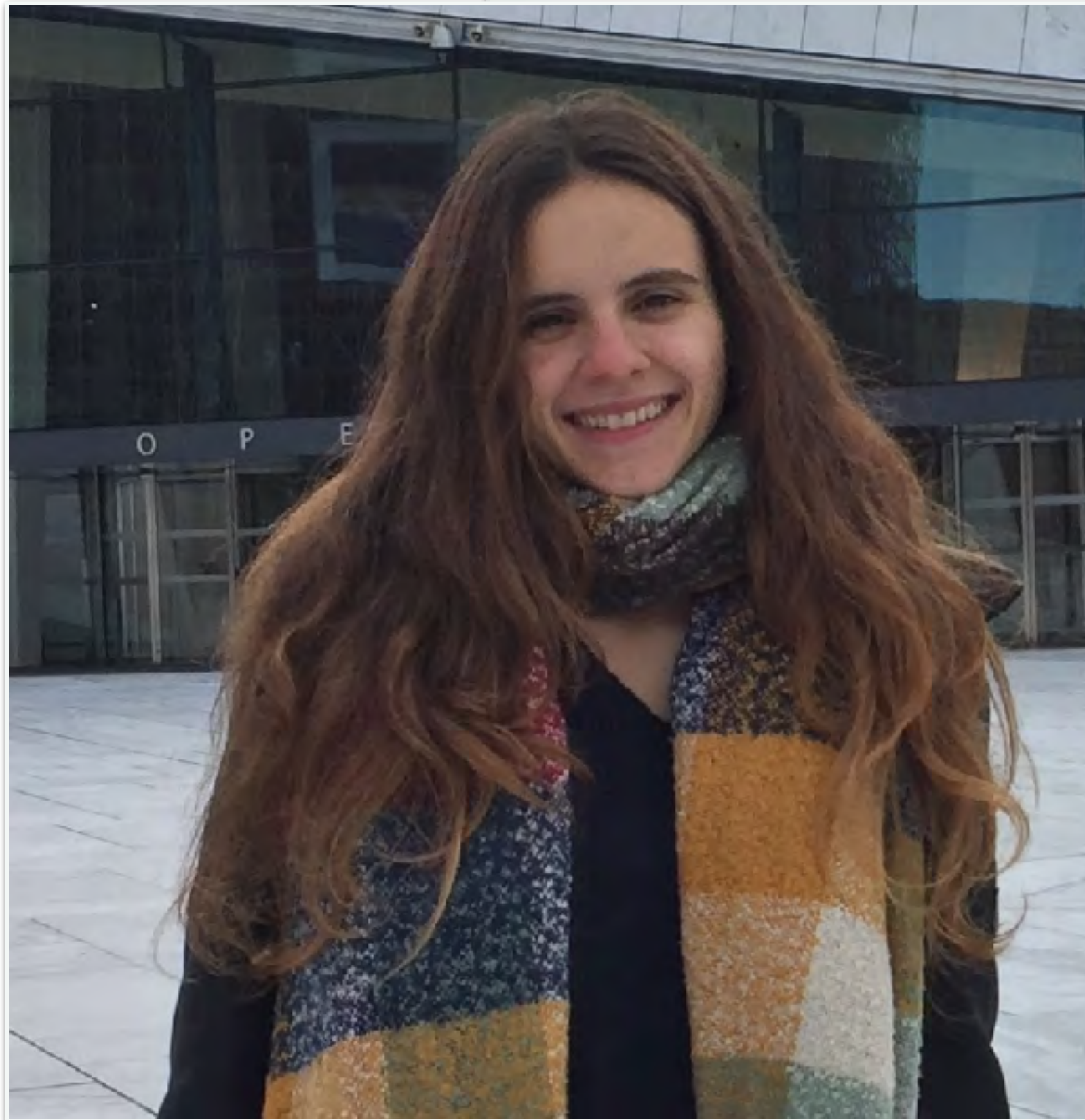
RASA MULLER
PHD NEUTRINO TELESCOPE



YUEFAN GUO
PHD GW

NEW COLLEAGUES

RHORRY GAULD
POSTDOC THEORY



LHCB: SILVIA FERRERES AND JORDY BUTTER (PHD)

CT: RENS ROOSENSTEIN (HVA)



MT: LUUK VAN NIEUWLAND





MARNIX HEIKAMP
MSC GW

IRIS DE RUYTER
MSC GW



DANIELE PASCUCCI
POSTDOC GW



PETER PANG
PHD GW

TIM DIETRICH
POSTDOC GW



OTHER NEW COLLEAGUES

Ginny Marshall	PhD	eEDM
Alessio Pizzini	PhD	Atlas
Stefano Manzoni	Postdoc	Atlas
Rahul Balasubramanian	PhD	Atlas
Hiroki Yokoyama	Postdoc	Alice
Emanuele Nocera	Postdoc	Theory
Yanning Yin	Postdoc	eEDM

THEORY DEPARTMENT



VISITING PROFESSOR - ROHINI GODBOLE

Physics and Astronomy Visiting Professor





BEYOND SCIENCE

CAMPAGNES

Attract even more people to Nikhef

Attract technical skilled people to CERN via short term internships

Nikhef communications created a number of 'testimonials' from Dutch students at CERN



- <https://www.nikhef.nl/jobs/technische-stages-cern/>

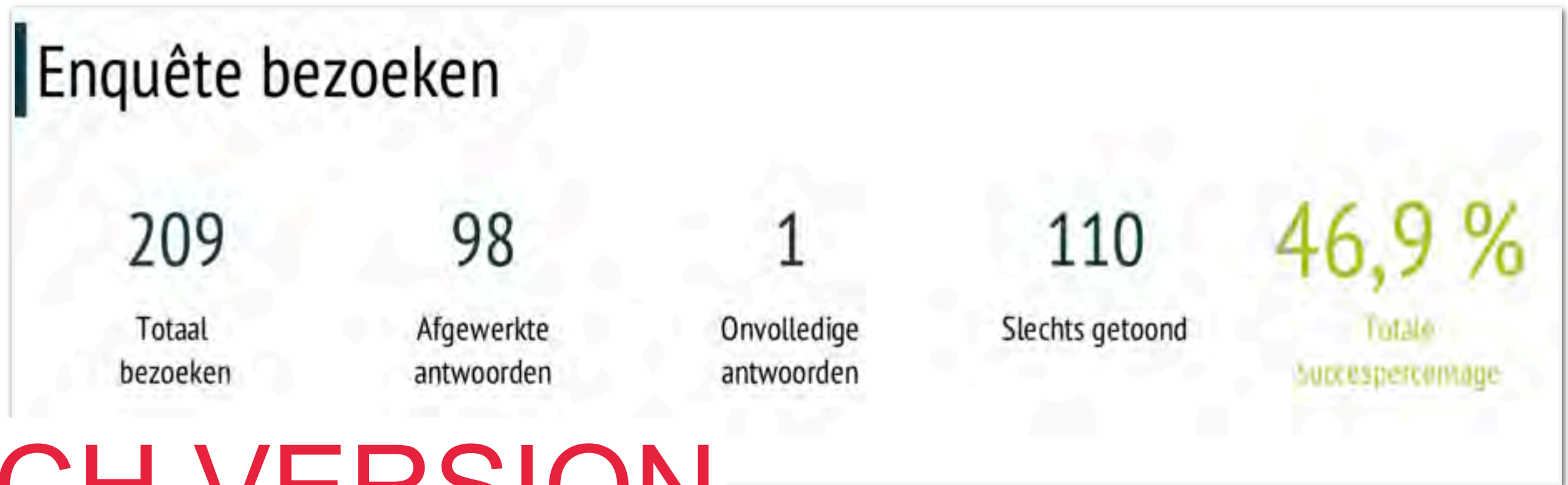


PILOT PROJECT - SURVEY FOR RENOVATION

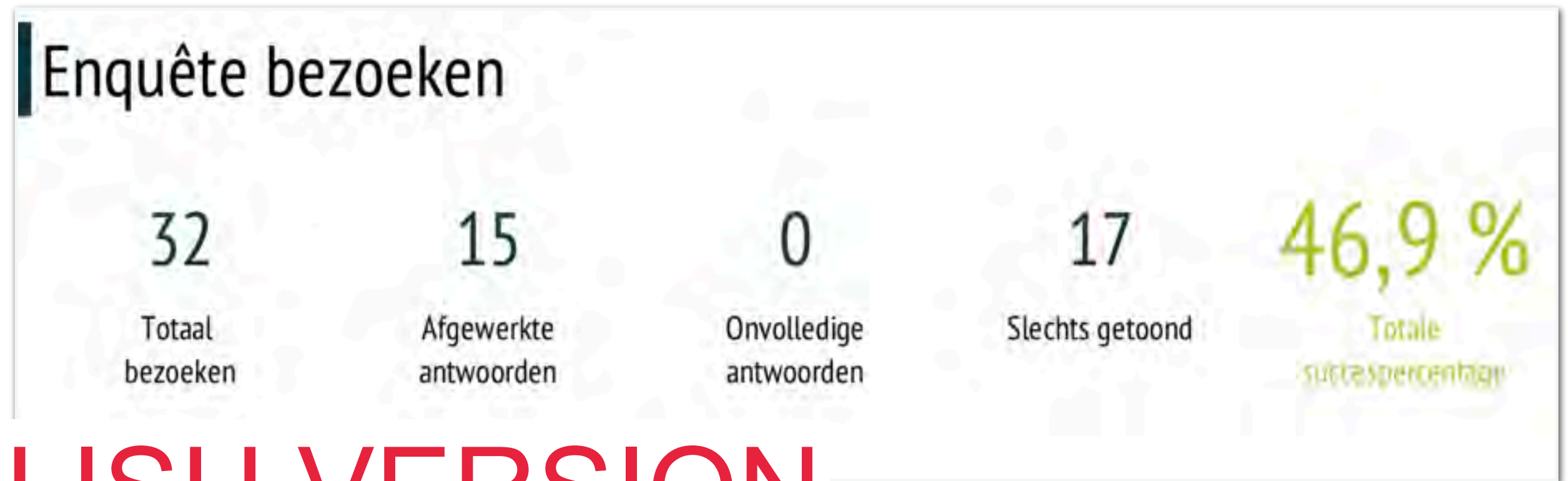
Pilot projects renovation Nikhef (EN)



Analysis still going...



DUTCH VERSION

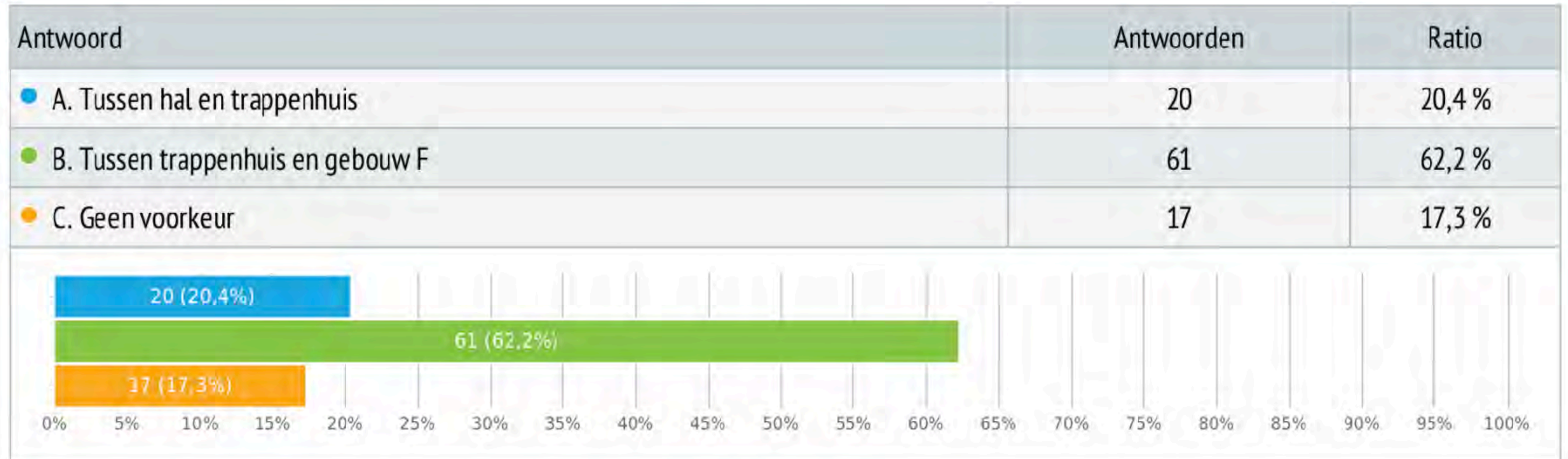


ENGLISH VERSION

YOUR OPINION IS SOMETIMES VERY CLEAR

Welk deel van de gang H0 (de R&D gang) vind je het mooist?

Enkele keuze, Antwoorden 98x, onbeantwoord 0x



OPINIONS ON THE SPECTRUM

Antwoord	● Helemaal niet mee eens	● Niet mee eens	● Neutraal	● Mee eens	● Helemaal mee eens	● Geen mening
Ik ga graag naar het Spectrum voor lekkere koffie.	4 (4,1 %)	6 (6,1 %)	11 (11,2 %)	20 (20,4 %)	46 (46,9 %)	11 (11,2 %)
De akoestiek is aangenaam.	27 (27,6 %)	28 (28,6 %)	22 (22,4 %)	16 (16,3 %)	3 (3,1 %)	2 (2,0 %)
De voetbaltafel is een goede toevoeging aan deze ruimte.	8 (8,2 %)	16 (16,3 %)	28 (28,6 %)	29 (29,6 %)	13 (13,3 %)	4 (4,1 %)
Het is fijn dat er een fonteintje is.	0	1 (1,0 %)	19 (19,4 %)	34 (34,7 %)	38 (38,8 %)	6 (6,1 %)

SUGGESTIONS FOR SPECTRUM

Niemand neemt de aarbeien thee, weg ermee!

Akoestiek kan echt beter.

Acoustisch is het momenteel een "drama". Hier is heel veel winst te behalen.

Akoetisch is het spectrum zeer slecht. Vooral met grote groepen mensen wordt de verstaanbaarheid zeer slecht. Jammer dat er aan de akoestiek niet de nodige aandacht is besteed.

De aankleding vind ik erg goed gelukt.

De vloer is mooi.

De oude banken zaten een stuk beter en de ruimte was toen makkelijker te gebruiken voor andere zaken. Koffiezetapparaat mag van mij permanent weg.

HEB JE NOG WAT TOE TE VOEGEN OF SUGGESTIES OVER WAT BESLIST BEHOUDEN MOET WORDEN OP NIKHEF?

De bruine tegels op de gang! De donkere kleuren graag behouden en zo min mogelijk glas! Wat is er mis de huidige stijl? Ik ben wel blij dat deze enquête in het Nederlands gehouden wordt! Wanneer gaat het spiegel moment weer terug naar het Nederlands?

STATUS RENOVATION

We are preparing the 'Programma van Eisen'

- Includes feedback of the pilot projects

We plan to have the 'design team' selected by the end of 2018

- I.e. selection of architects

Construction work will start 2nd half of 2019

- Port-o-cabins of ARCNL for temporary office space
- No interruption of the on-going projects at Nikhef

EINDE