

27 Marzo 2026 – SALONE DELL'ORIENTAMENTO

LA BUSSOLA UNIVERSALE

Andrea Nardin, Alex Minetto

Navigation Signal Analysis and Simulation (NavSAS) research group

Dipartimento di elettronica e telecomunicazioni (DET)

Politecnico di Torino



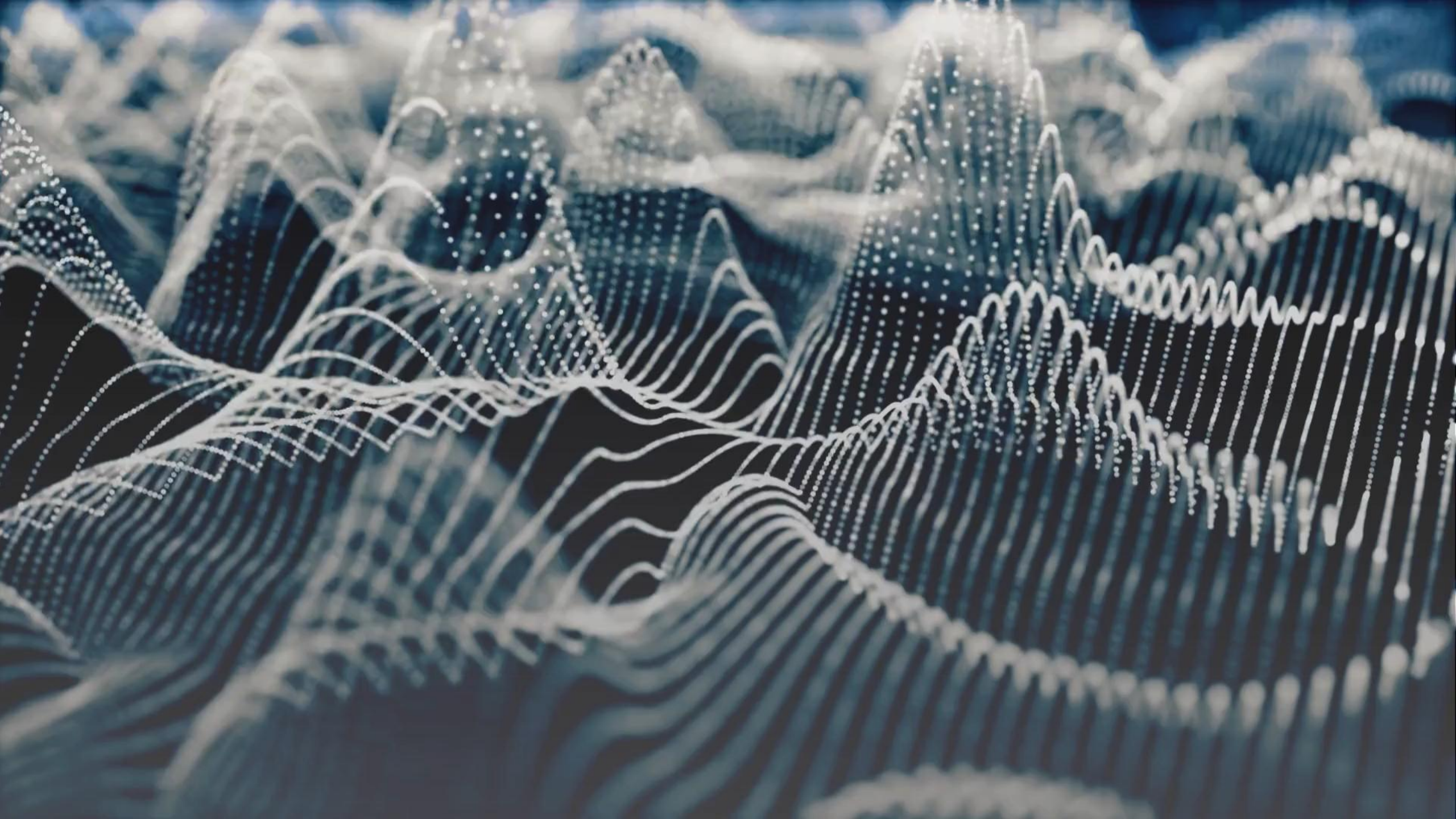






LU^GRE

LUNAR GNSS RECEIVER EXPERIMENT





WPT SET NONE
INS SET GPD DATA

GSPD 58
TAS 2.3

GSPD 0.4
TAS 0.4

MODE
EI EZ-TOP

ENRGY
1.033

FPAS
MENU

NRMLIZE
OPTIMUM

STBY
0.249

CONNECT
DB-2

REGULATORS

0.481	0.481	0.481
0.276	0.449	0.481
0.481		

IR1

SEGMENT A

SEGMENT B

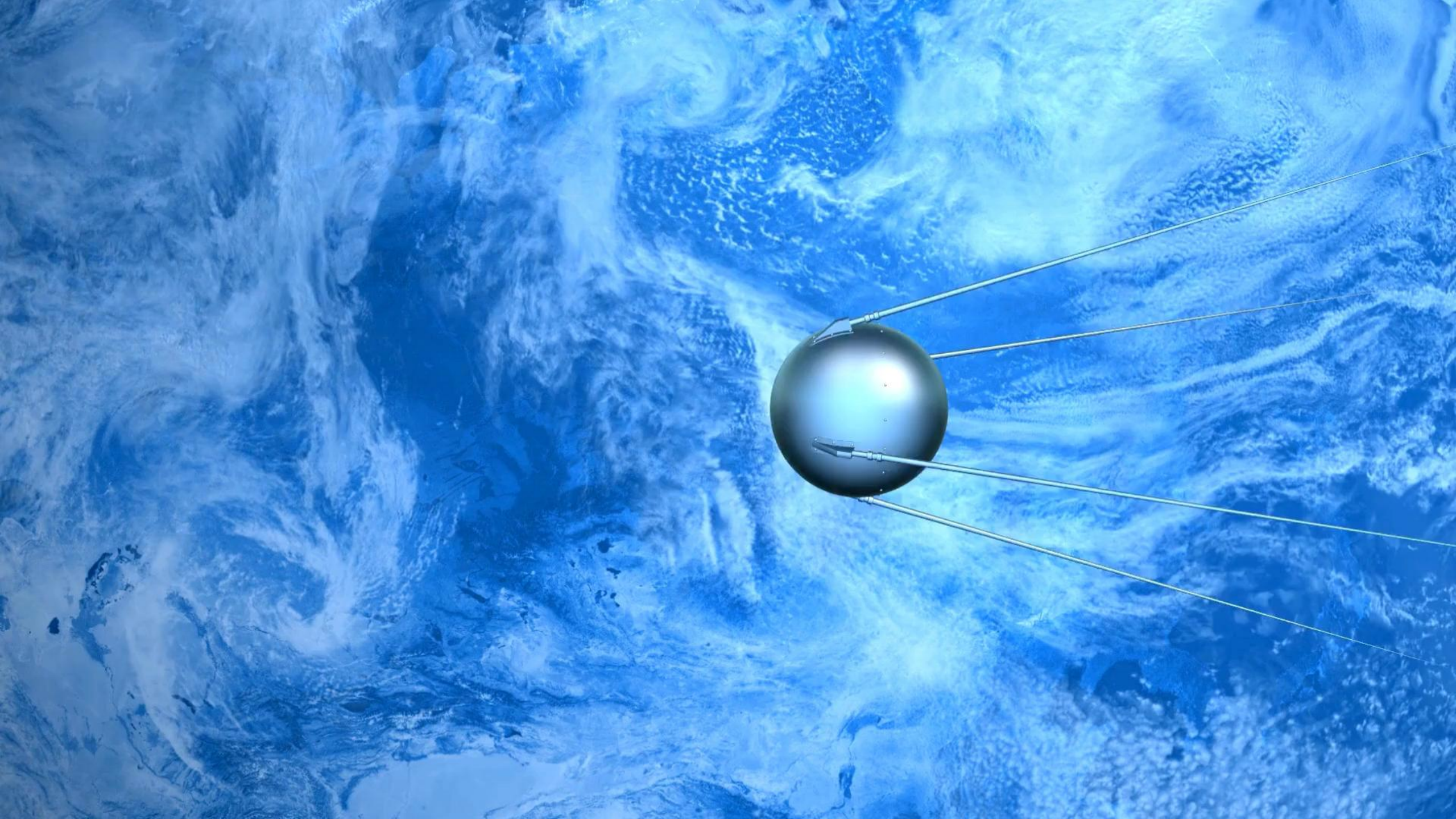
SEGMENT C

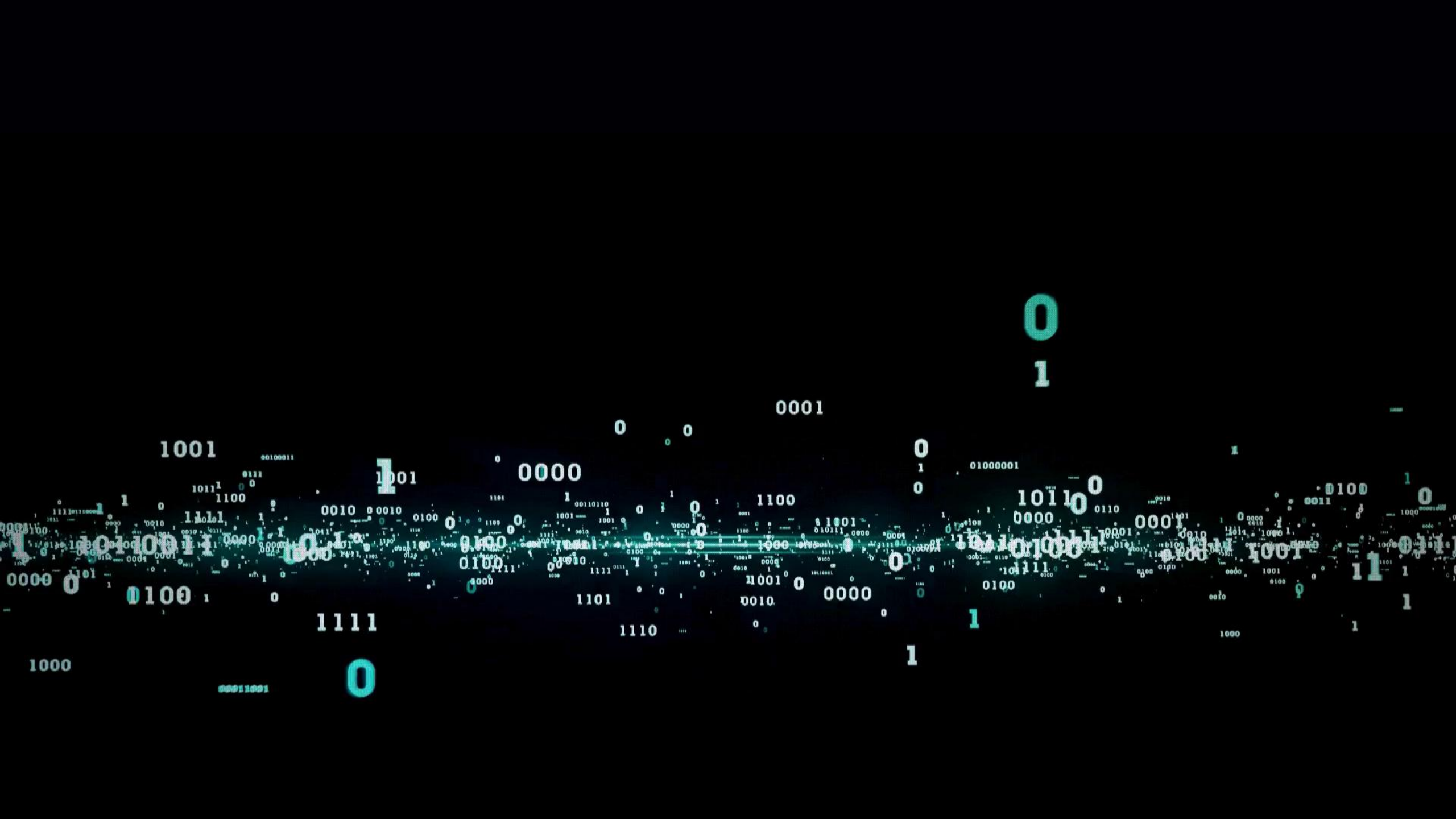
CONTROL REGS

K-751

TKZ
LFD

TKZ
LFD





0
1

0001

1001

1001

0000

01000001

1100

10110

0100

1111

0010 0010 0100

0100

1101

0000

0001

0000

0001

0100

1111

1101

11001

0000

0100

1000

1000

00011001

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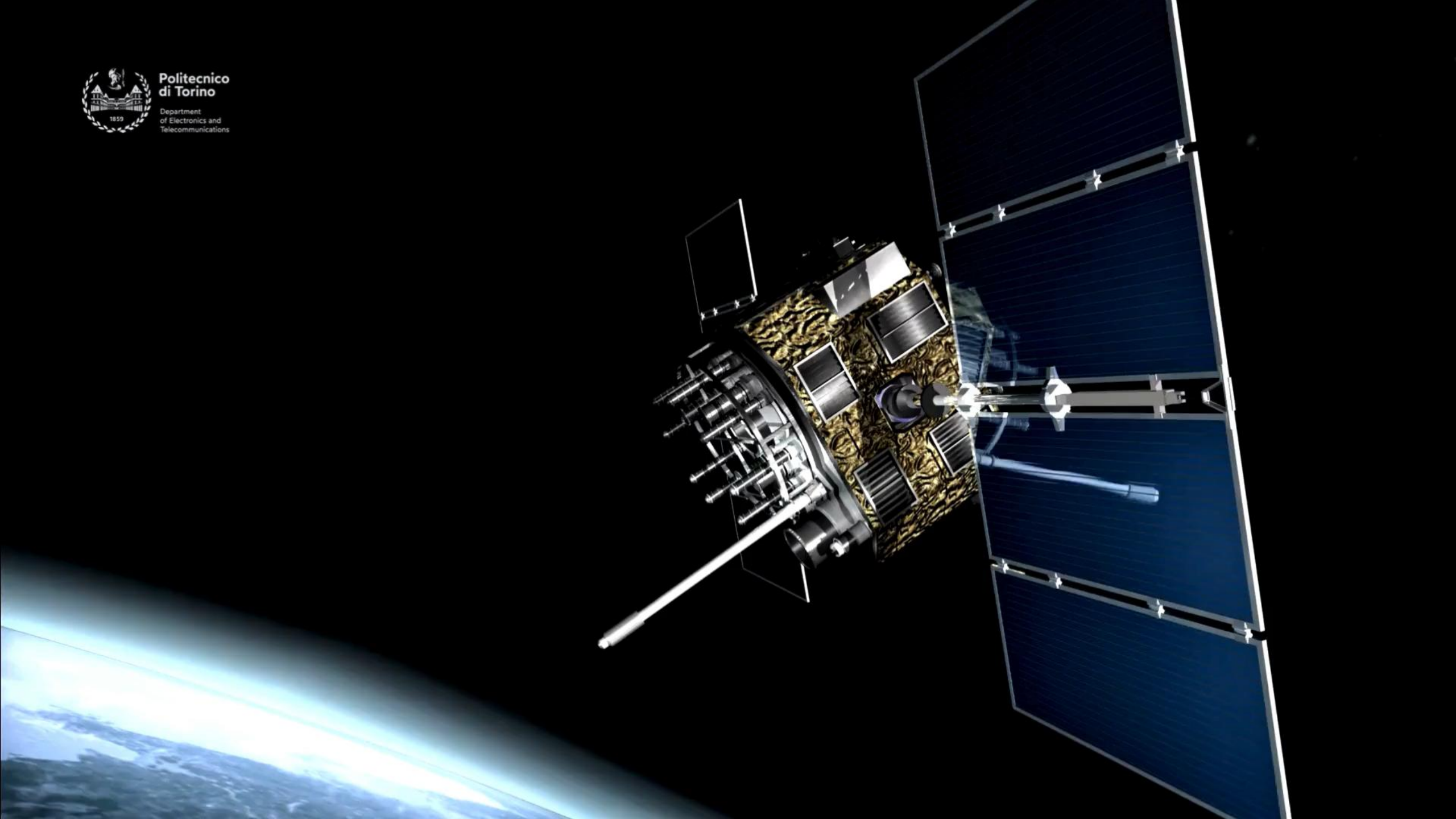
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“Osiris-REx Earth-Moon image” by NASA/University of Arizona, taken 25 September 2017. Public domain.
Source: https://commons.wikimedia.org/wiki/File:Osiris-rexearthmoon_rotated2.jpg ([Wikimedia Commons](#))

GPS orbital radius: ~26 600 km
(~4 Earth Radii)

Average distance: 384 399 km (~60 Earth Radii)





LU[☾]GRE
LUNAR GNSS RECEIVER EXPERIMENT

BGM1 & LuGRE 3D-viewer .v1.0



LuGRE
LUNAR GNSS RECEIVER EXPERIMENT



Simulation time [UTC]

15-Jan-2025 07:31:36 UTC









Early morning landing: 2nd March 2025



<https://www.youtube.com/watch?v=NpHhEybdxg>





Marzo 2025:
Il mio ufficio al Politecnico



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