

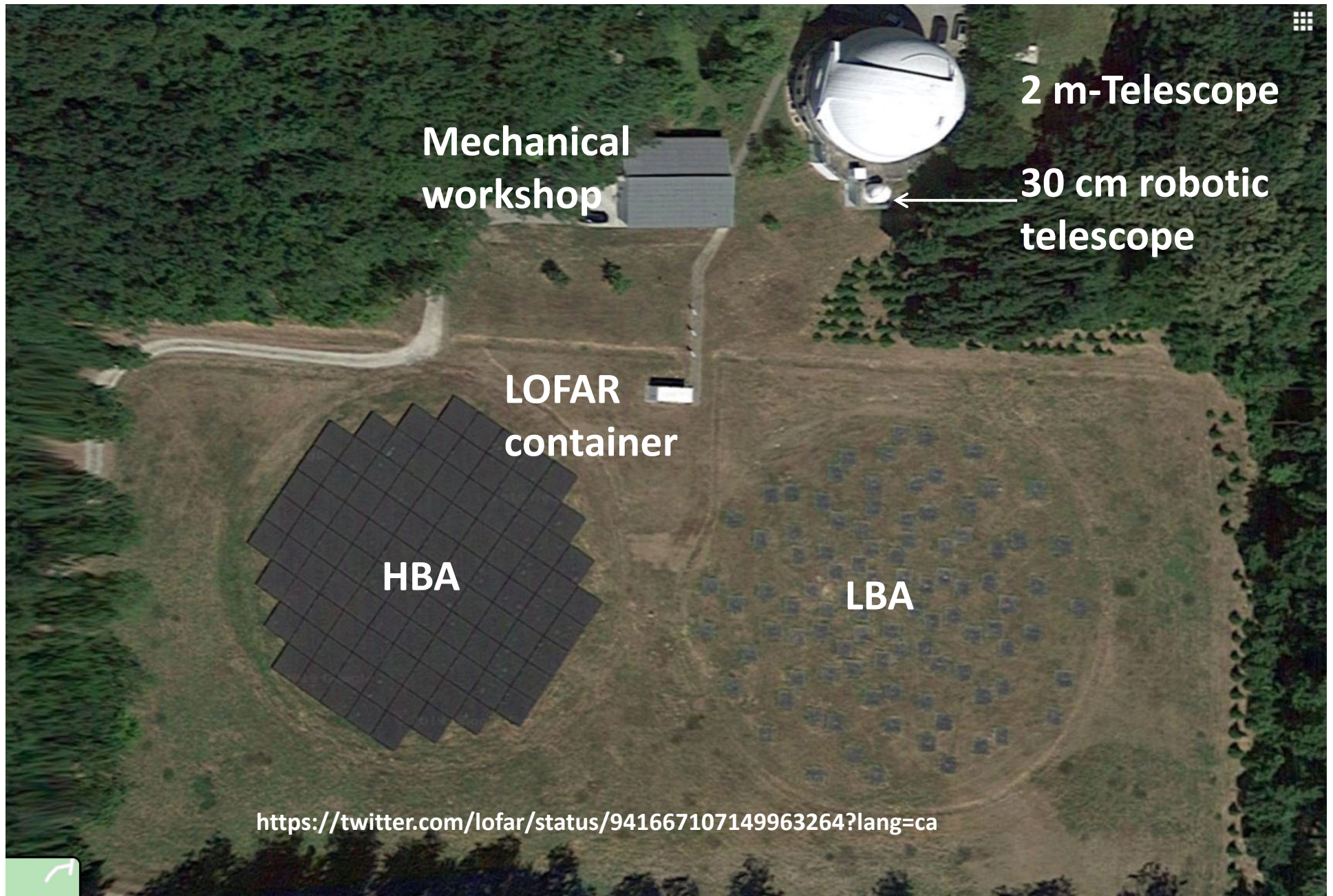


Thüringer Landessternwarte Tautenburg

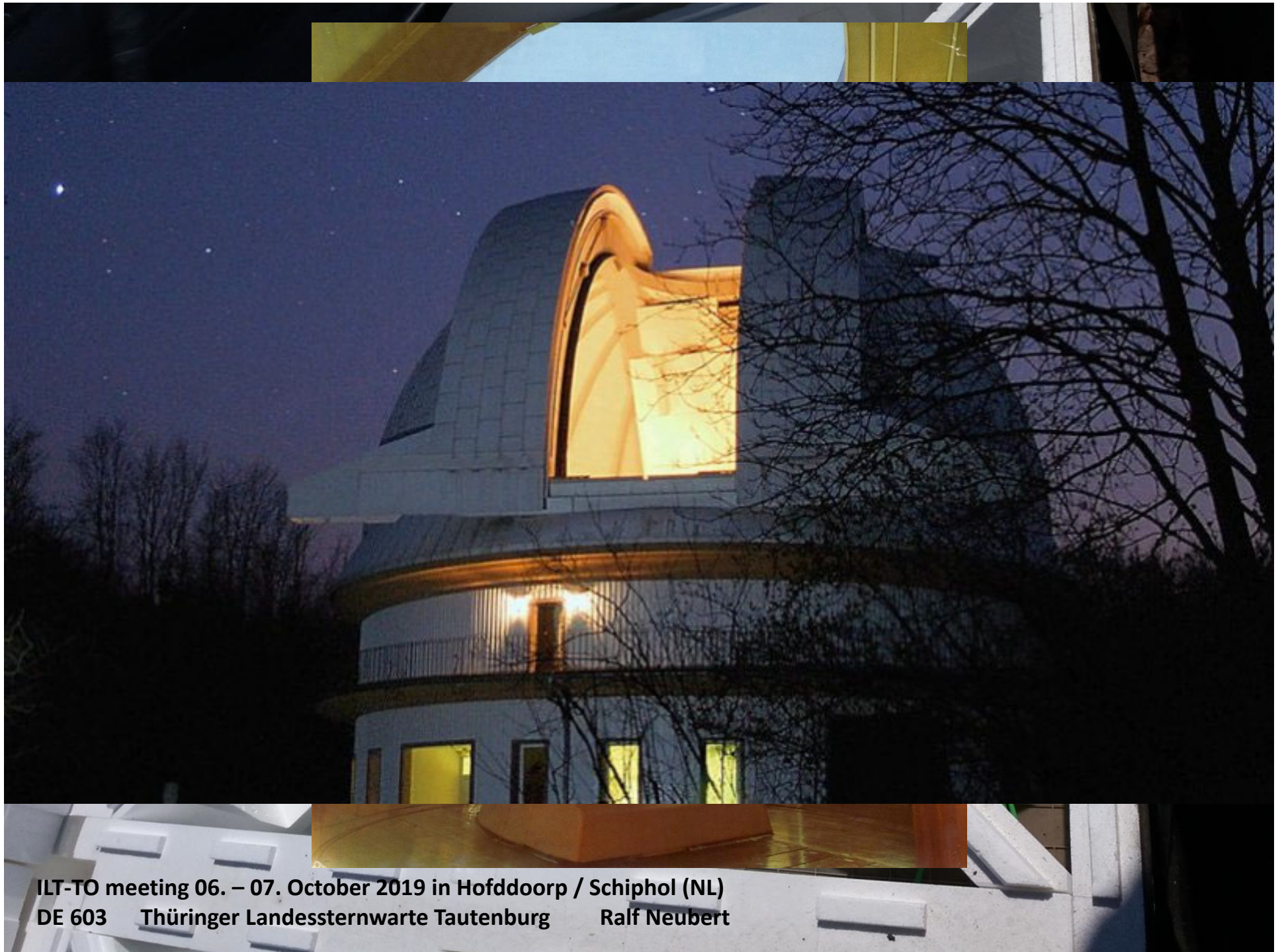
Karl-Schwarzschild-Observatorium

DE603

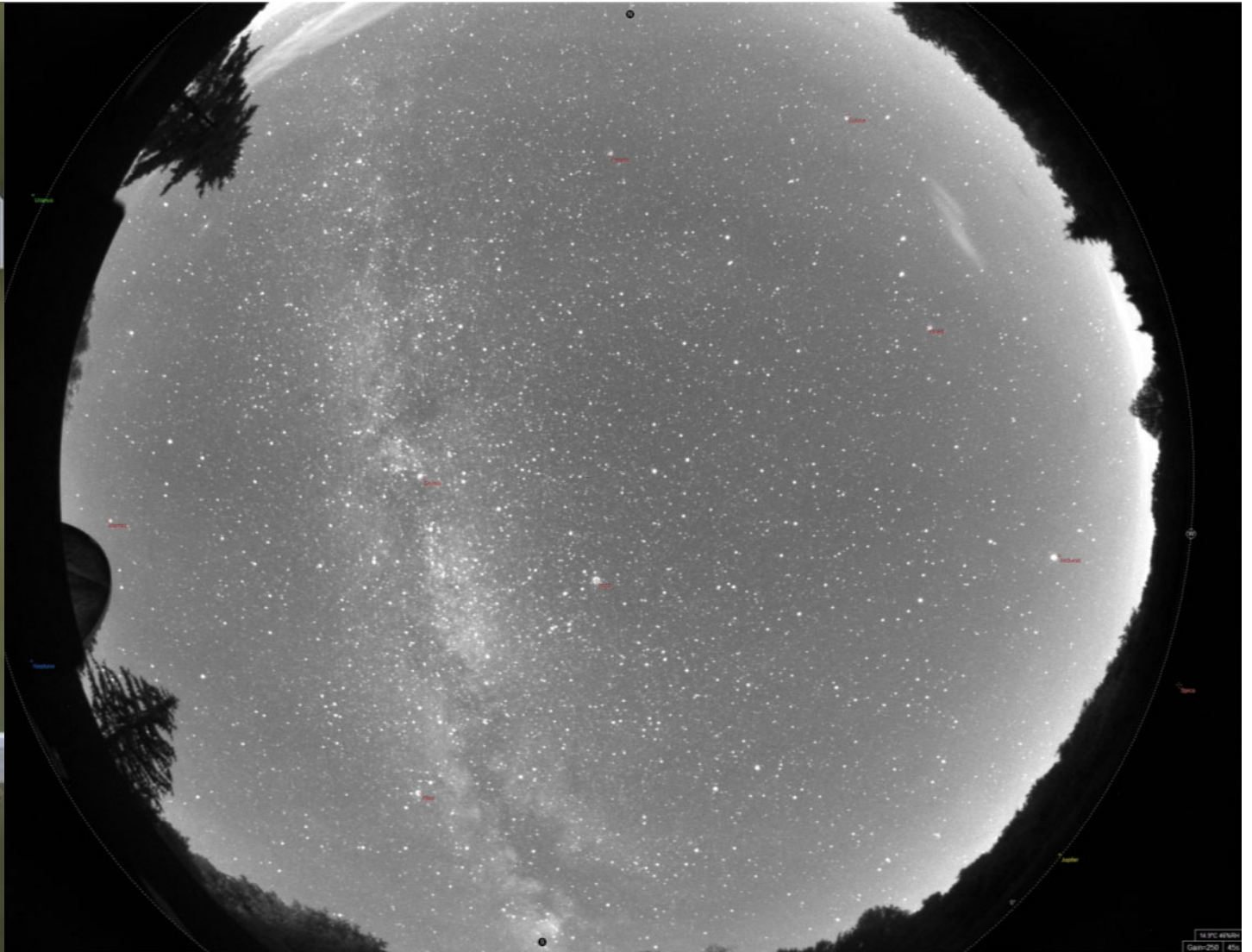




<https://twitter.com/lofar/status/941667107149963264?lang=ca>

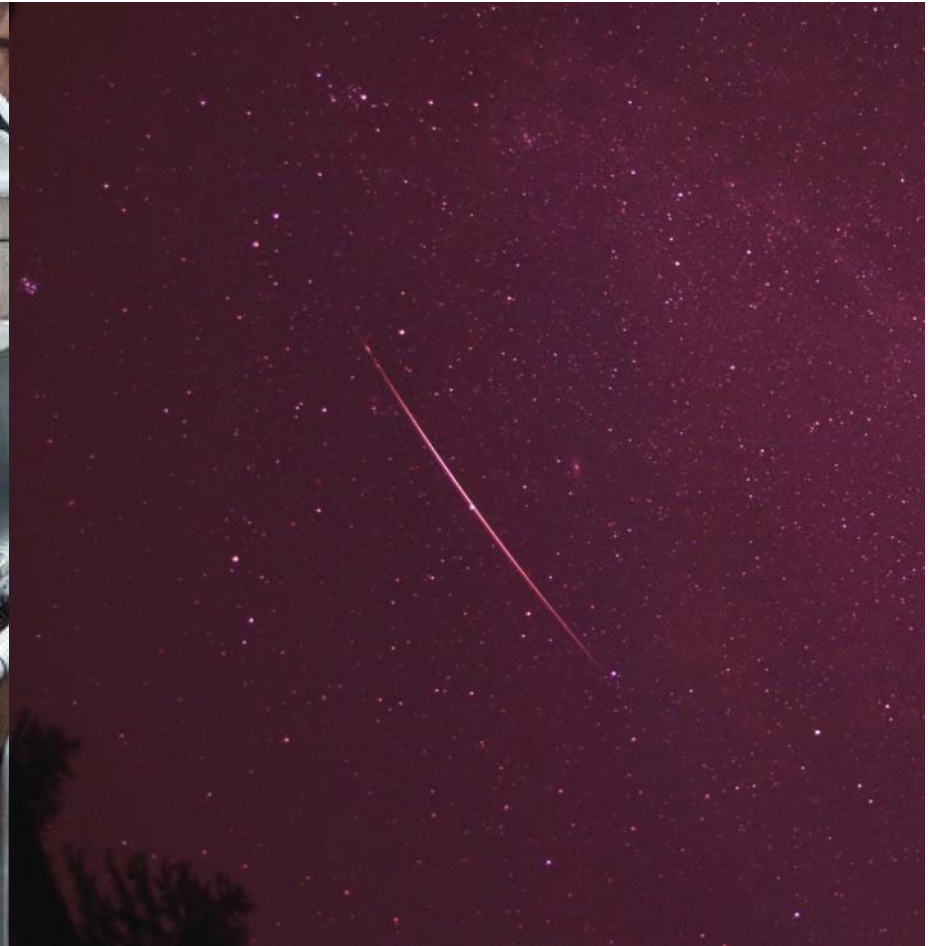


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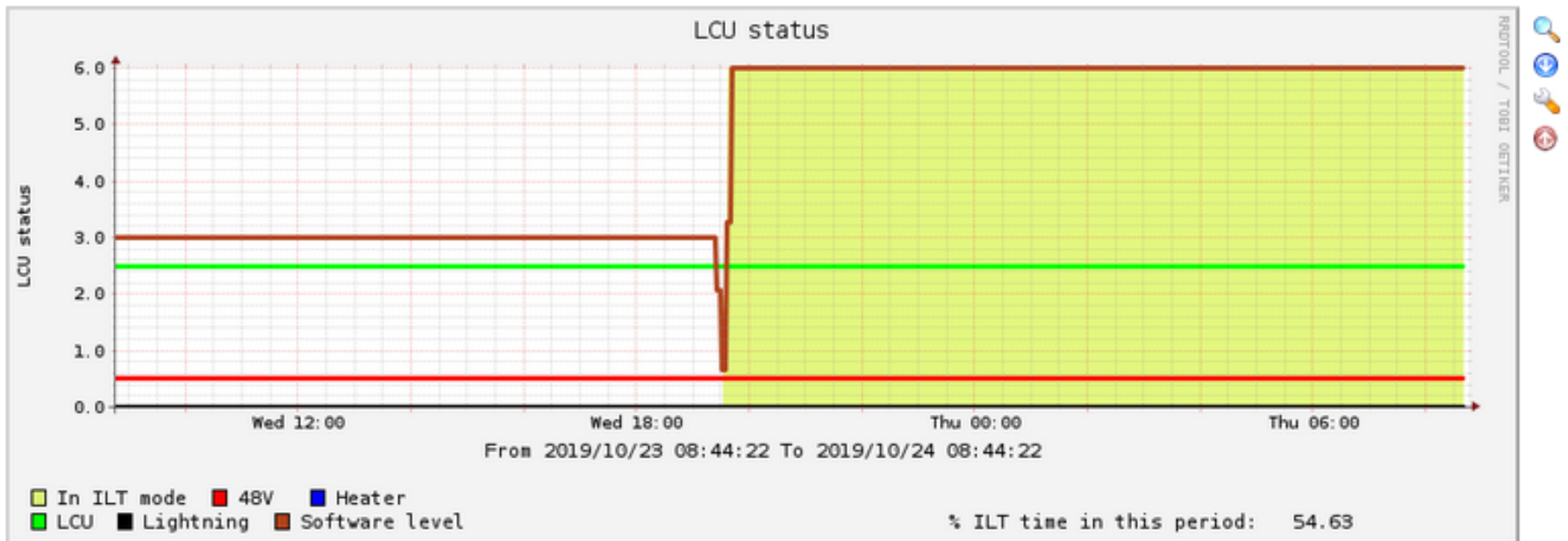
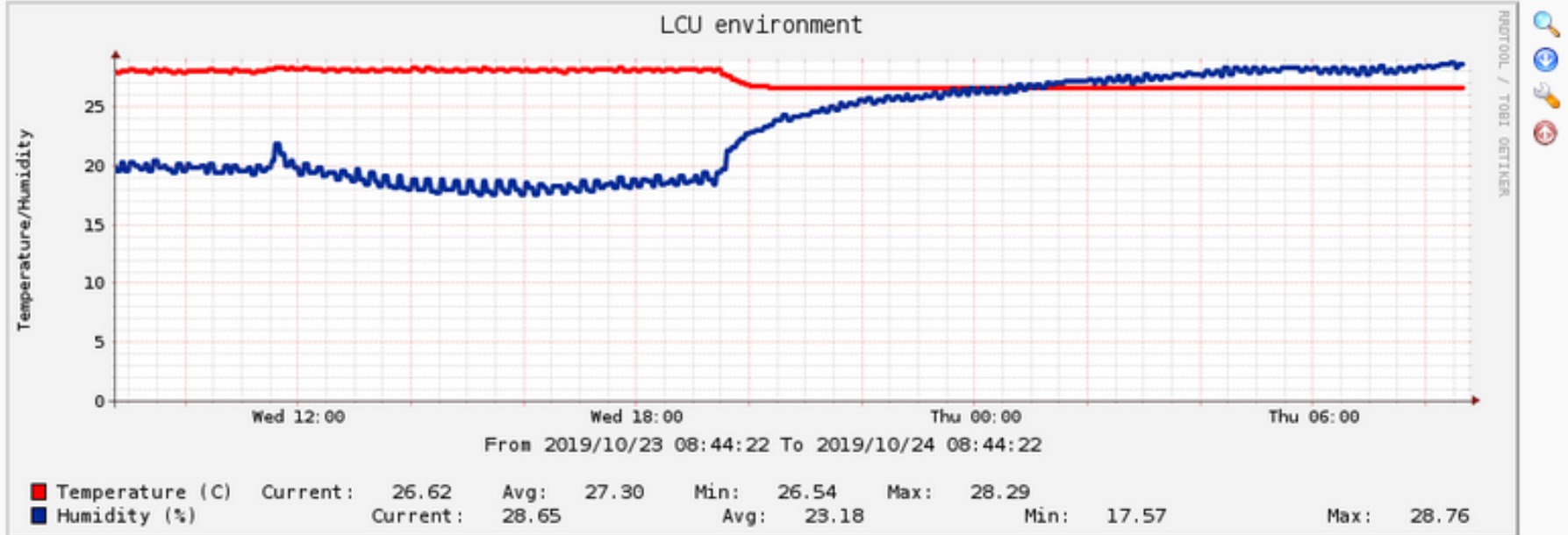
ALCOR Oculus OMEA 6M Allsky Camera

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Digital Autonomous Fireball Observatory (DAFO) in cooperation with the Astronomical Institute of the Czech Republic / Ondrejov. They use a full frame Canon 6D digicam with Sigma fish-eye lens (8 mm f/3.5).

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Typical HBA spectrum recorded in the daytime RCU mode 5

FM-Radio

Aircraft radio 120...138 MHz

DAB channel 5C 178,4 MHz

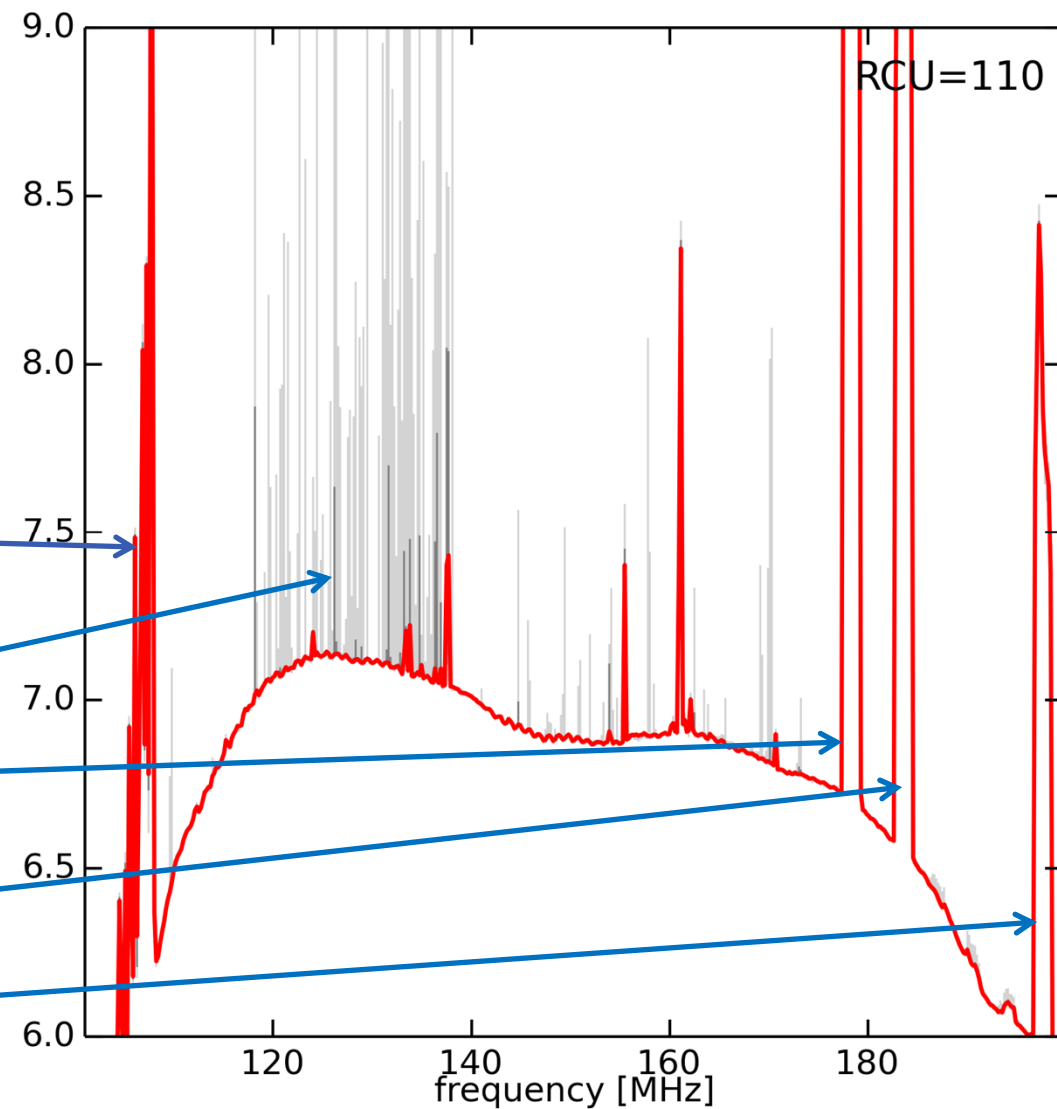
Jena

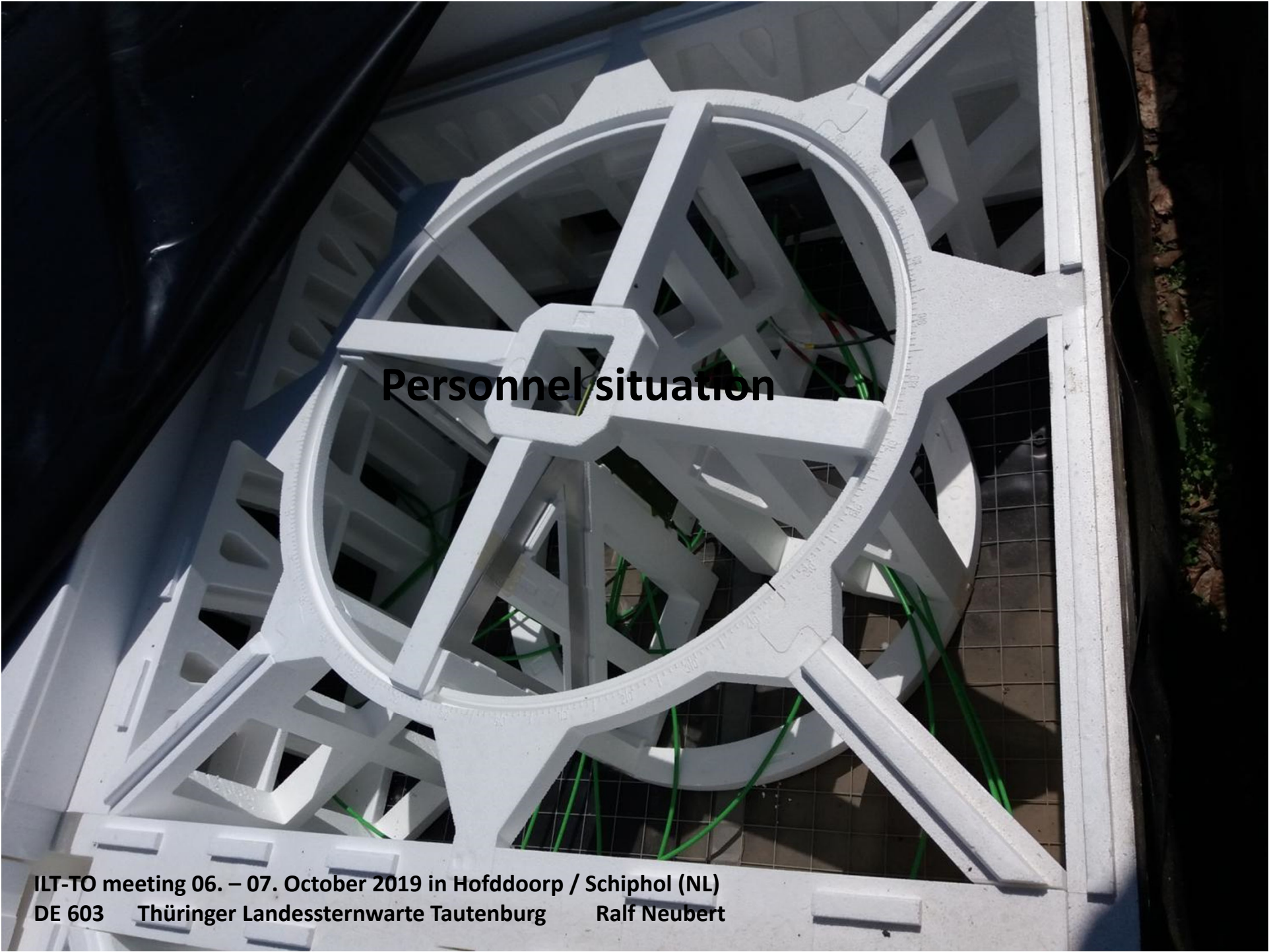
DAB channel 6B 183,6 MHz

Halle

DAB channel 8B 187,6 MHz

Jena





Personnel situation

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The Tautenburg LOFAR Team

Four staff members left our team since 2018:

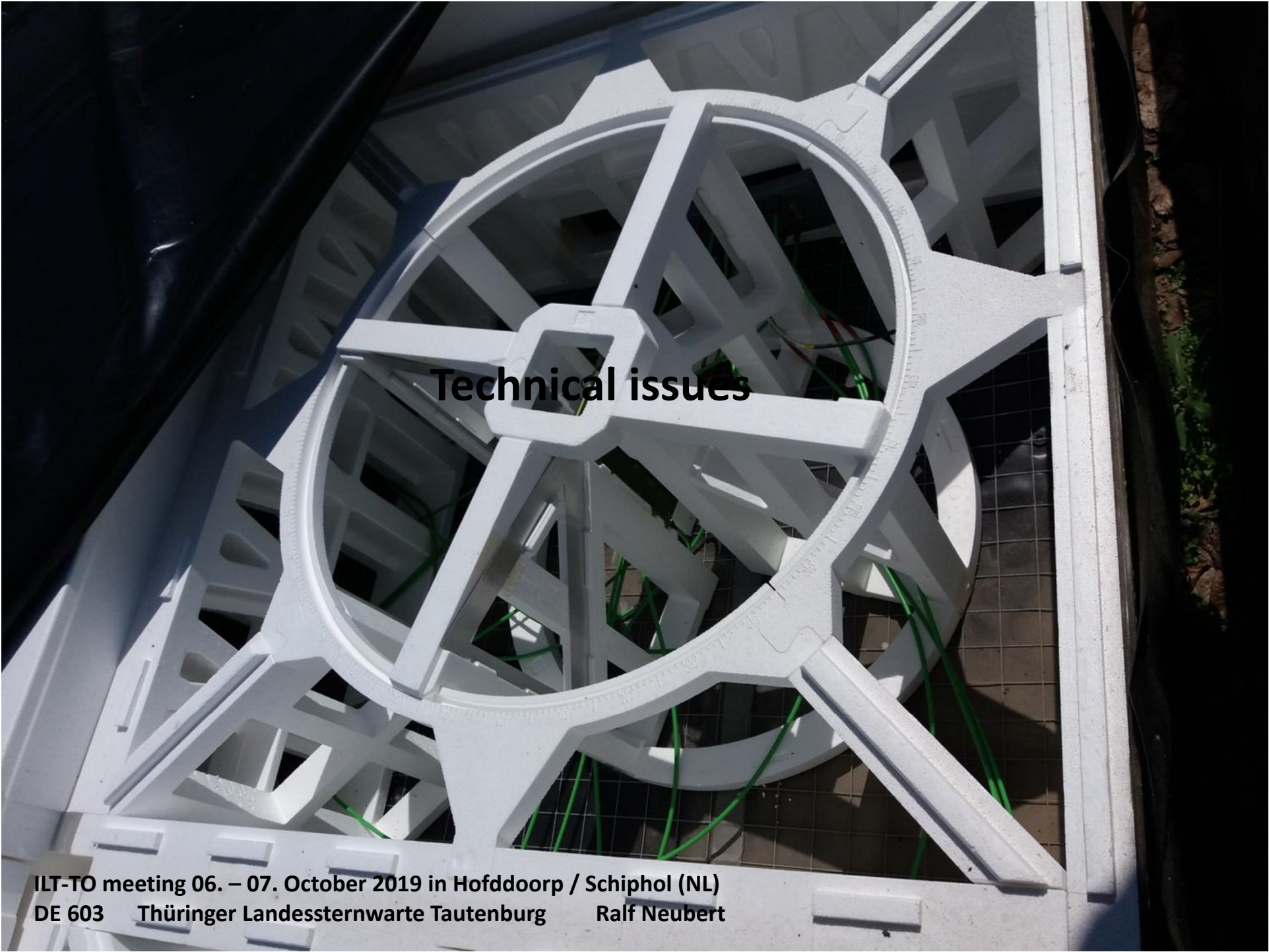
Cosmos Dumba
Jakob Gelzinnis
Kamlesh Rajpurohit
Michael Pluto

Current staff:

Alexander Drabent (Science)
Bernd Fuhrmann (IT)
Jochen Eisloffel (Science)
Matthias Hoeft (Science)
Michael Kehr (Electro)
Mukul Chaturvedi (Science)
Ralf Neubert (Electronics)

A proposal for D-LOFAR 2.0 "Enabling radio astronomy at lowest frequencies" was submitted (BMBF) to allow the finance of LOFAR 2.0 from 2022

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Technical issues

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DE 603 statistics: (from October 2018 to October 2019)



condensate water opening -> downwards!

Several LBA were damaged or destroyed by storms
on 7. and 10. March 2019)



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We had some problems with games:



... a racoon ...



SECACAM Raptor

11C 20.10.2018 02:19:12

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... a badger...



SECACAM Raptor

07C 28.10.2018 23:49:43

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... and Mrs. Fox.



SECACAM Raptor

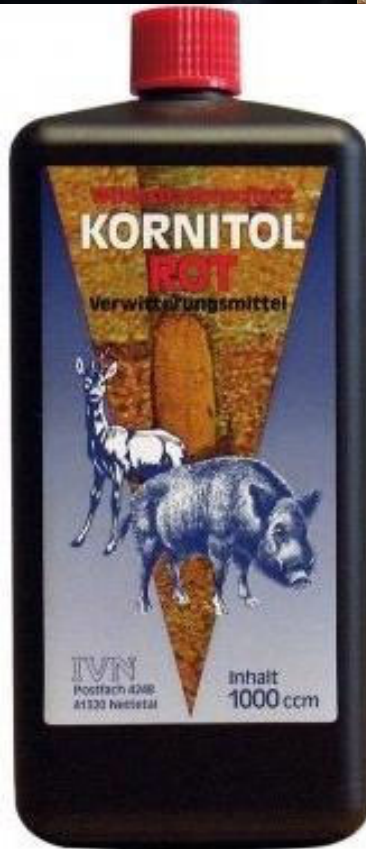
10C 21.10.2018 01:17:51

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The big question is whether the national problem parts can be solved by the existing national or international elimination impossible!



Much less destroyed rubbers and tension ropes since we use
Kornitol Rot 23021 Repellant (Wildschadenschutz)
~ 20 € / l (www.grube.de, Amazon)



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29.08.2019 container cleaning (outside)

Reasons for this action:

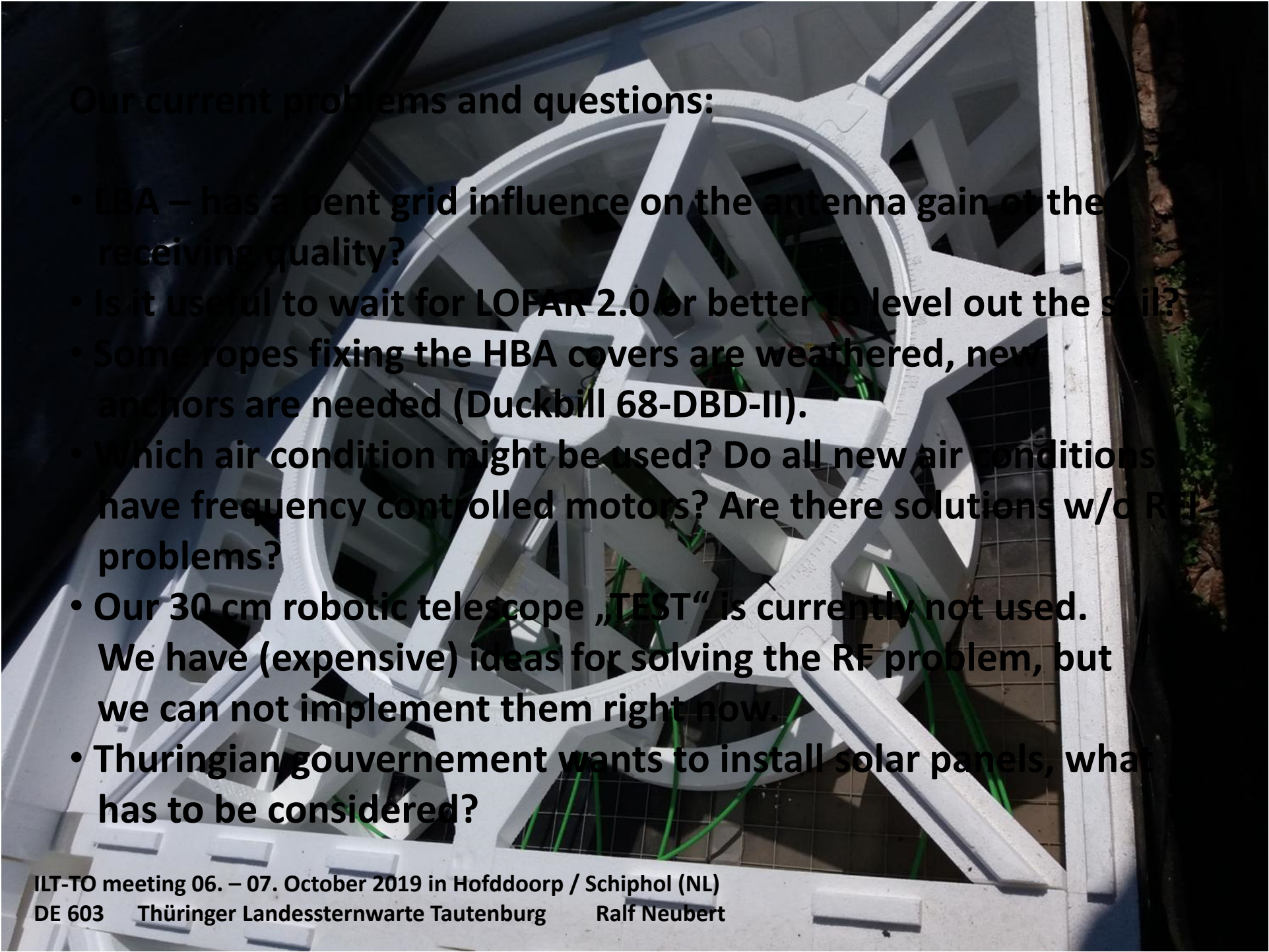
- The container was mossy and dirty.

- An upcoming visit by the Thuringian Ministry!

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We give them something to dig through spikes and weeds
the soil on the edges.





Our current problems and questions:

- LBA – has a bent grid influence on the antenna gain or the receiving quality?
- Is it useful to wait for LOFAR 2.0 or better to level out the soil?
- Some ropes fixing the HBA covers are weathered, new anchors are needed (Duckbill 68-DBD-II).
- Which air condition might be used? Do all new air conditions have frequency controlled motors? Are there solutions w/o RF problems?
- Our 30 cm robotic telescope „TEST“ is currently not used. We have (expensive) ideas for solving the RF problem, but we can not implement them right now.
- Thuringian government wants to install solar panels, what has to be considered?

**The DE 603 team wants to say thank you
for your attention and for your support
whenever we had a problem!**

