

TEIDEN OBSERVATORIOT – LEIBNIZ-
INSTITUTE FOR SOLAR PHYSICS (KIS)

VTT - VACUUM TOWER TELESCOPE



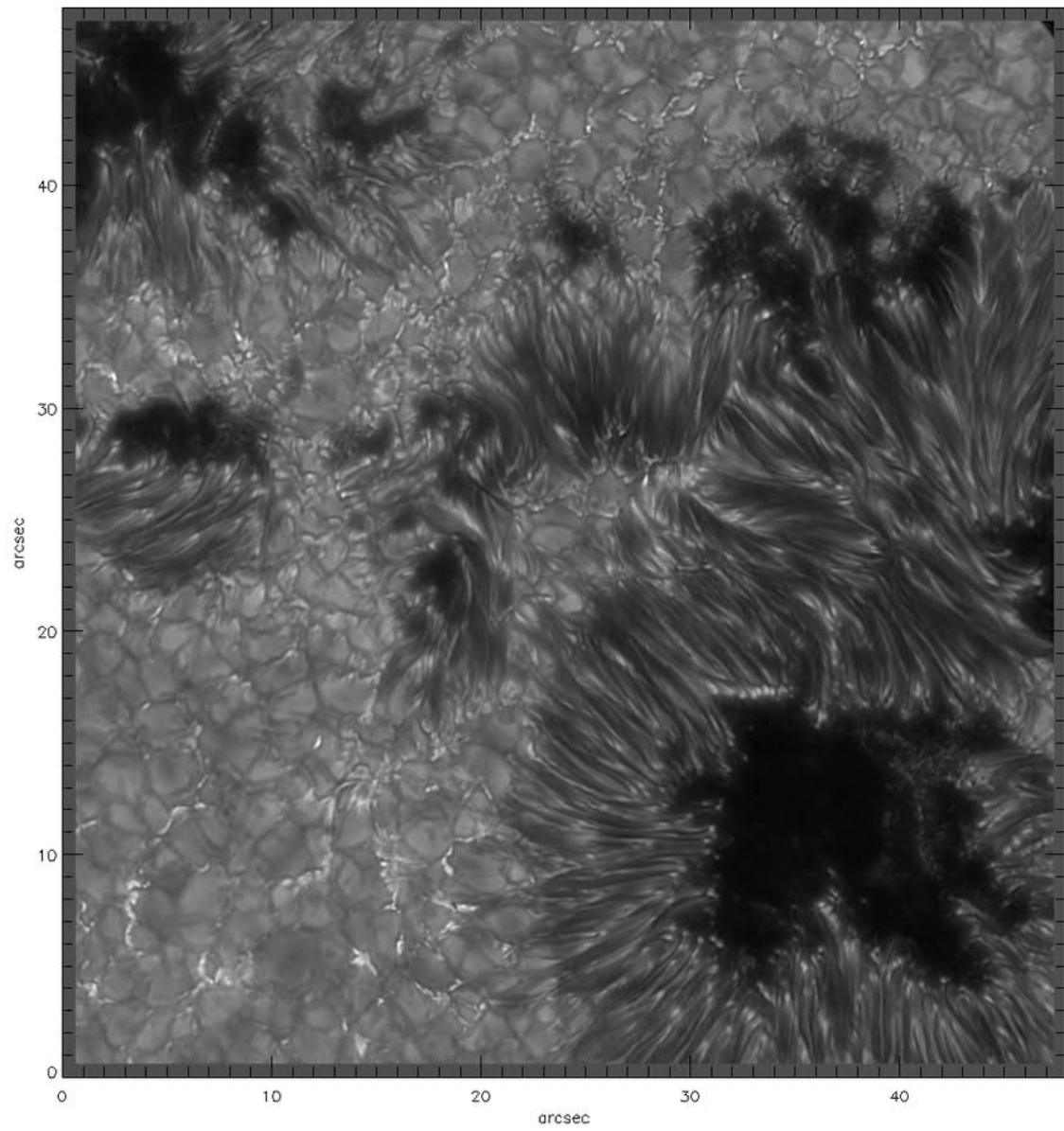
SELOSTAATTI

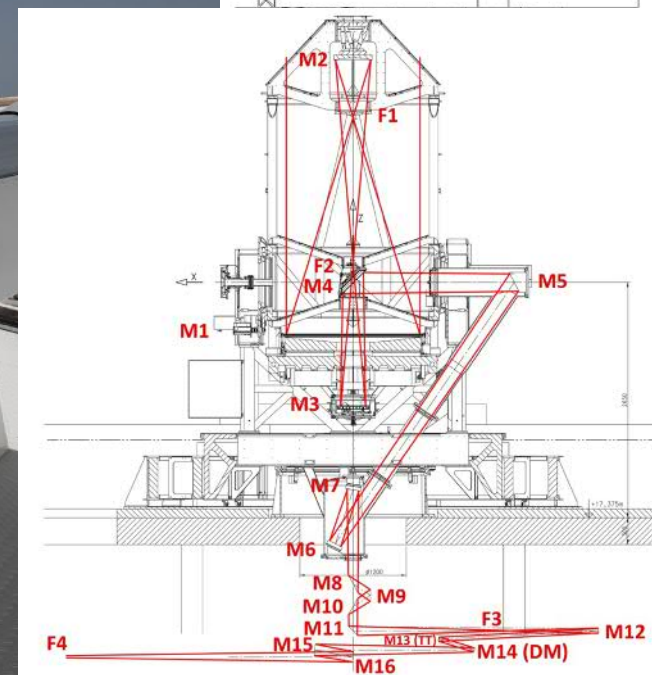
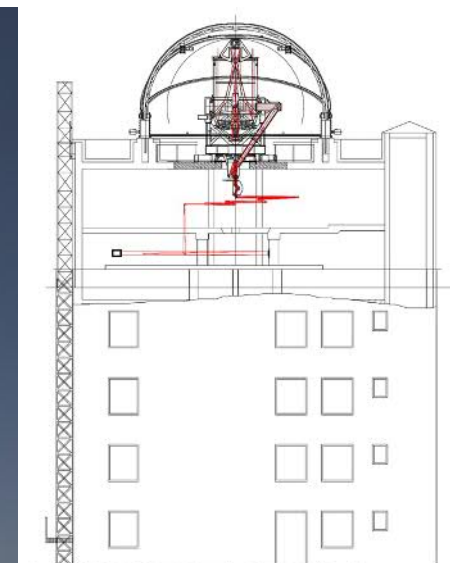


- ▶ PÄÄPEILIN HALKAISIJA 70 cm
 - ▶ POLTTOVÄLI 45,6 m
 - ▶ EROTTELUKYKY 0,196"
 - ▶ LARS – Laser Absolute Reference Spectrograph
 - ▶ HELLRIDE – Helioseismological Large Regions Inteferometric Device = spektrometri
 - ▶ Yhteistyö: MPS, AIP, AIC ym.
 - ▶ KÄYTTÖÖNOTTO 90-luvulla
- 
- A series of several parallel white diagonal lines extending from the bottom right towards the top right of the slide.

OHJAUS





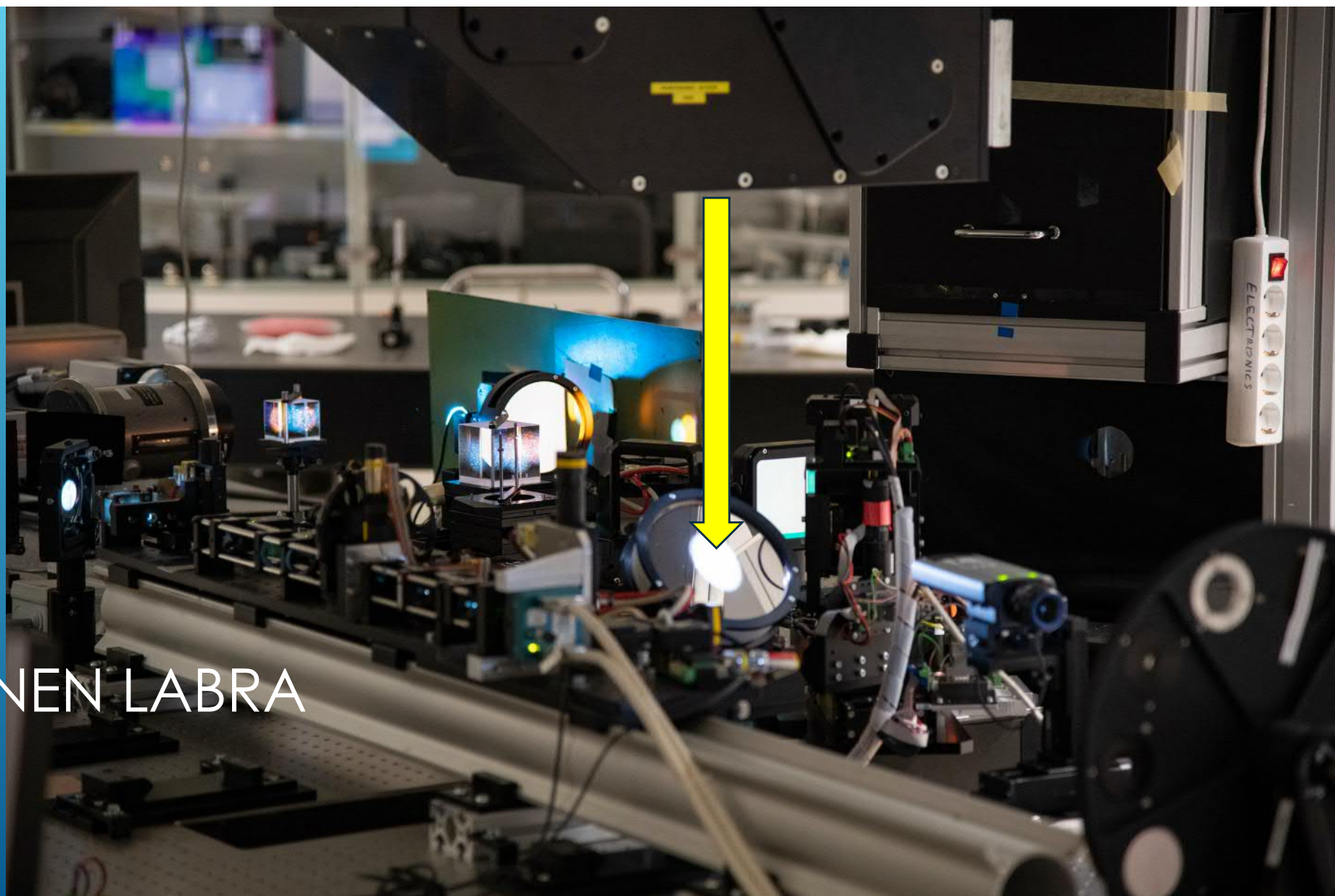


- ▶ GREGORIAN-kaukoputki
- ▶ PÄÄPEILI 1,5m (euroopan suurin, DKIST 4m maailman suurin)
- ▶ POLTOVÄLI 55 m
- ▶ FOV: 150"
- ▶ 16 PEILIÄ
- ▶ 4 FOKUSPISTETTÄ
- ▶ SEURANTATARKKUUS 0.2 – 0.5"
- ▶ SUUNTAUSTARKKUUS 1" (suhteellinen)
- ▶ HOAO (high order adaptive optics)
 - ▶ Diffraction limited resolution 0.08"
 - ▶ 256 actuators at 2100 Hz
- ▶ ALOITTI TOIMINTANSA 2014

GREGOR



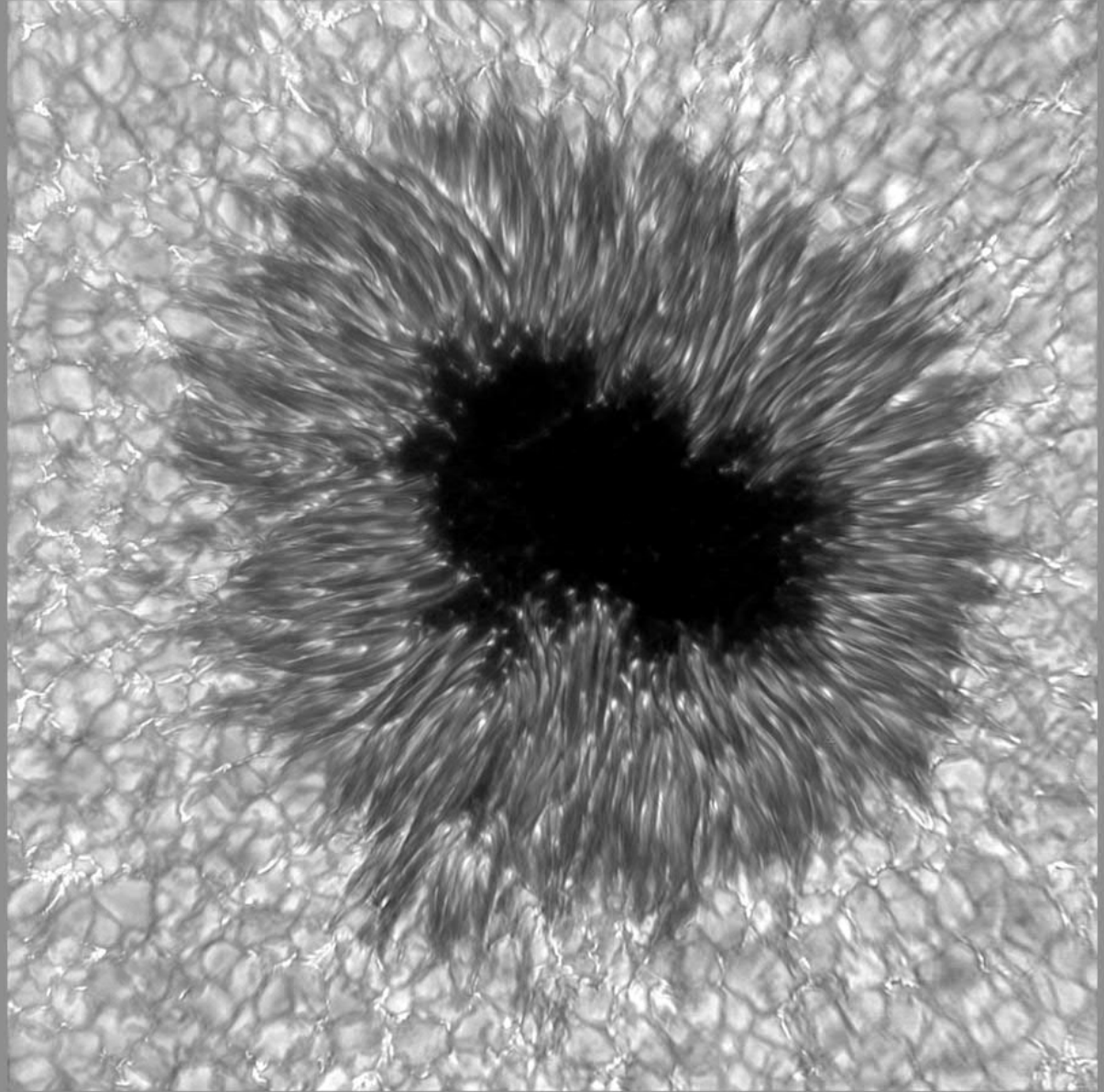
OPTINEN LABRA



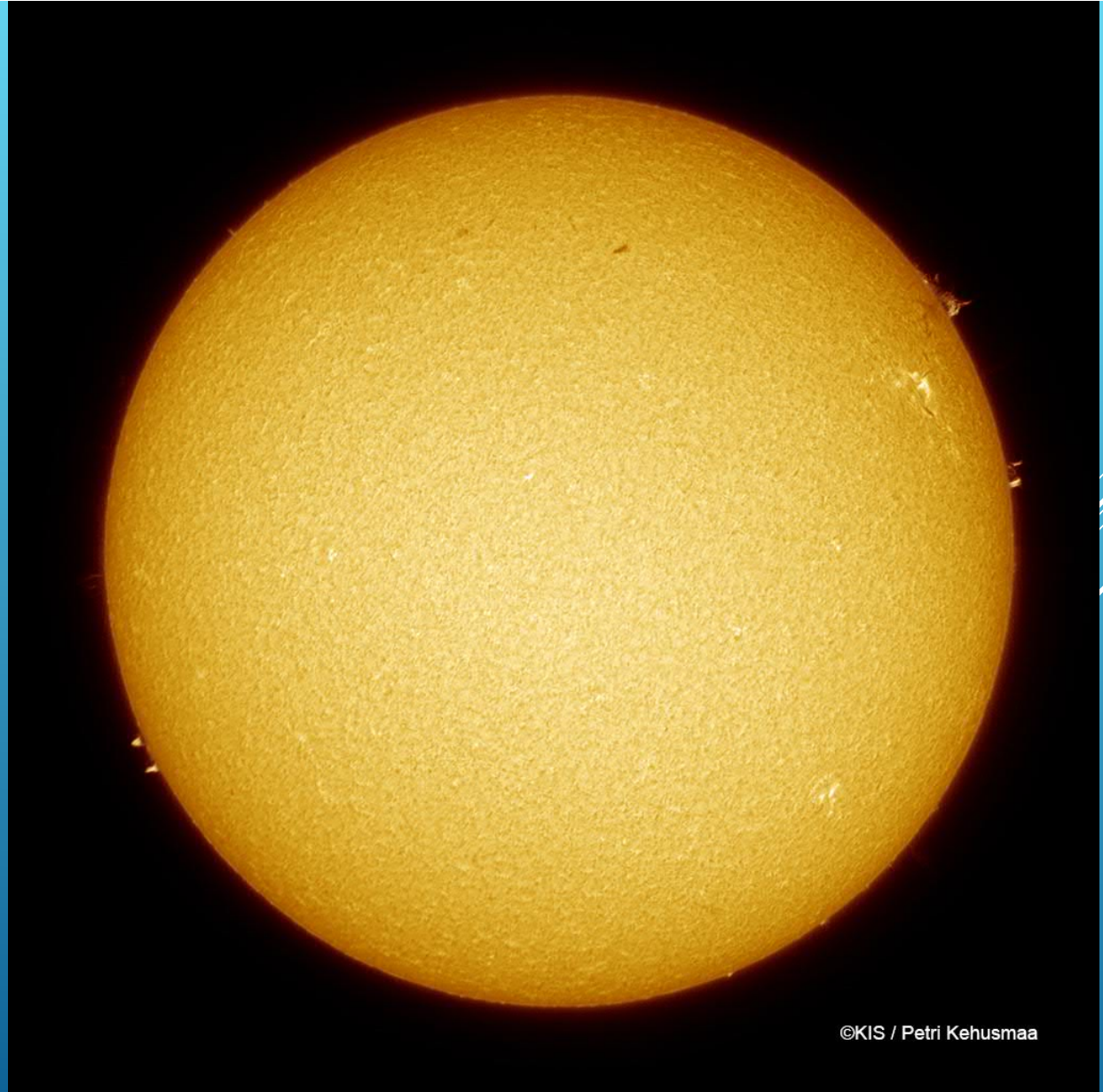
- ▶ GRIS – GREGOR Infrared Spectrograph
- ▶ BBI – Broadband Context Imaging
 - ▶ 2 x sCMOS at 50 Hz
- ▶ HiFi
 - ▶ 2 x sCMOS at 47 Hz
 - ▶ Best 100 frames out of 500
 - ▶ Multi wavelength, small magnetic features of chromosphere

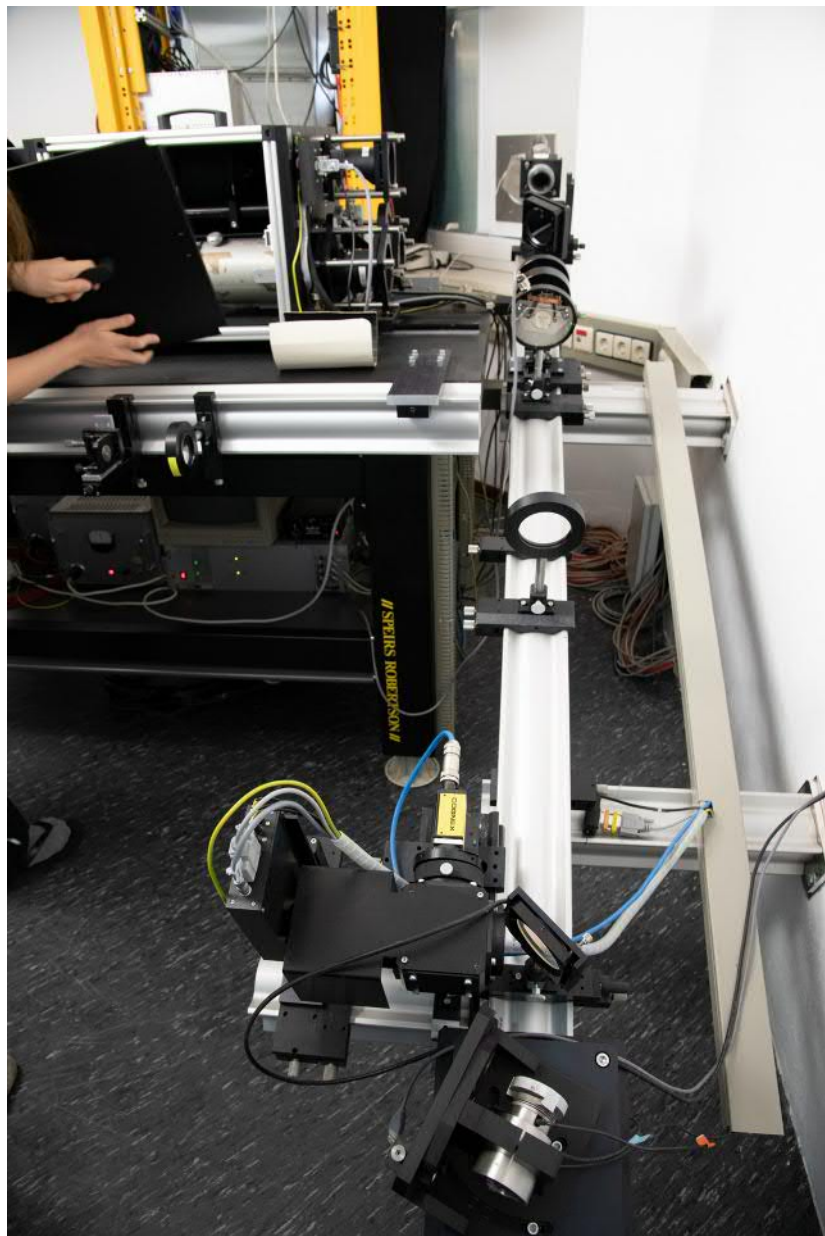
INSTRUMENTIT

AURINGON- PILKKU



CHROTEL - TURRET





LINNUNRATAA



NEOWISE



