

## Status Infrastructure D.07

■ D.07 close to fully equipped, cleaning procedure established



■ D.07 access

■ DACHS is working, but access is currently still with key ...



▶ We need a door handle or electronic latch asap to abolish key management issues

■ Air conditioning

■ Commissioned at end of March:  $\Delta T$  ok so far, although the flow is too high



■ Recent down time due to controller failure: 5d

▶ Important: we need short notice access to make changes to T and flow settings for laser optimization purposes from now on!!!

■ D.07 smoke detectors:




■ So far not hooked up to safety loop ...




■ Under way now

## Status PP-Laser Installation



### ■ PP-Laser assembly and commissioning

- Pre-assembly: ca. 75% 
- Seeder, Front-End, Pump-Amplifiers were commissioned independently.
  - ▶ Long term data of combined performance are still not available due to lack of diagnostics and logging capability so far. 
- Seed beams routed to NOPA 
- Pump beam routing to NOPA is starting now





### ■ Beam delivery

- Shutters, beam pipes, vacuum installed 
- 800nm alignment laser beams to FXE and SPB through vac. pipe by 12<sup>th</sup> May.
- Procurement of conversion hardware for Instruments started.

### ■ Synchronization

- RF-Sync is operative and stability was improved over the past months in cooperation with WP18. 
- HOWEVER, potential show stopper: on 10<sup>th</sup> May we were told, that a timing reference to x-ray bursts will not be available by September (first experiments). 
  - ▶ Link at sync sub-hutch: October 2017
  - ▶ Installations in sub-hutch: October + X months
- WP18 is evaluating if bridging solutions are feasible.

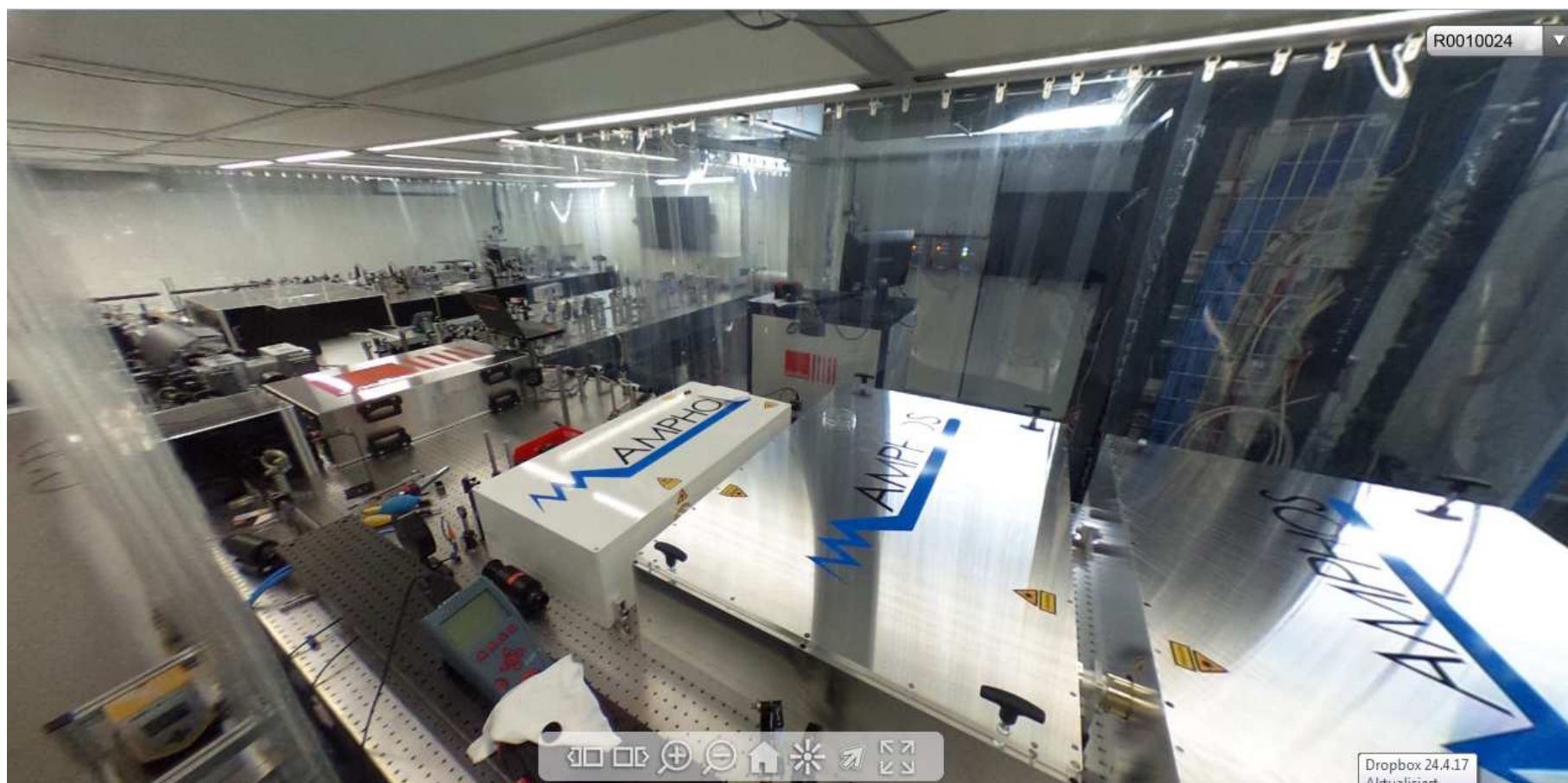
## Status Controls

- Certain linear and rotation stages (stepper motors) started to function this week.  
Some remaining issues, e. g.
  - specific stages don't work yet
  - units for the rotation stages are in mm and not in degrees
- KARABO is improving in general (e. g. support, stability, sensors, cameras), although still with head room, e. g.
  - poor stability of image processors.
- We still have memory and CPU issues, which lead to issues elsewhere in the system...
- Both X2 timers are now synchronized to each other and the laser trigger schemes are now implemented in the hutch

## Impressions from D.07



## Impressions from D.07





## Impressions from D.07



## Impressions from D.07

