

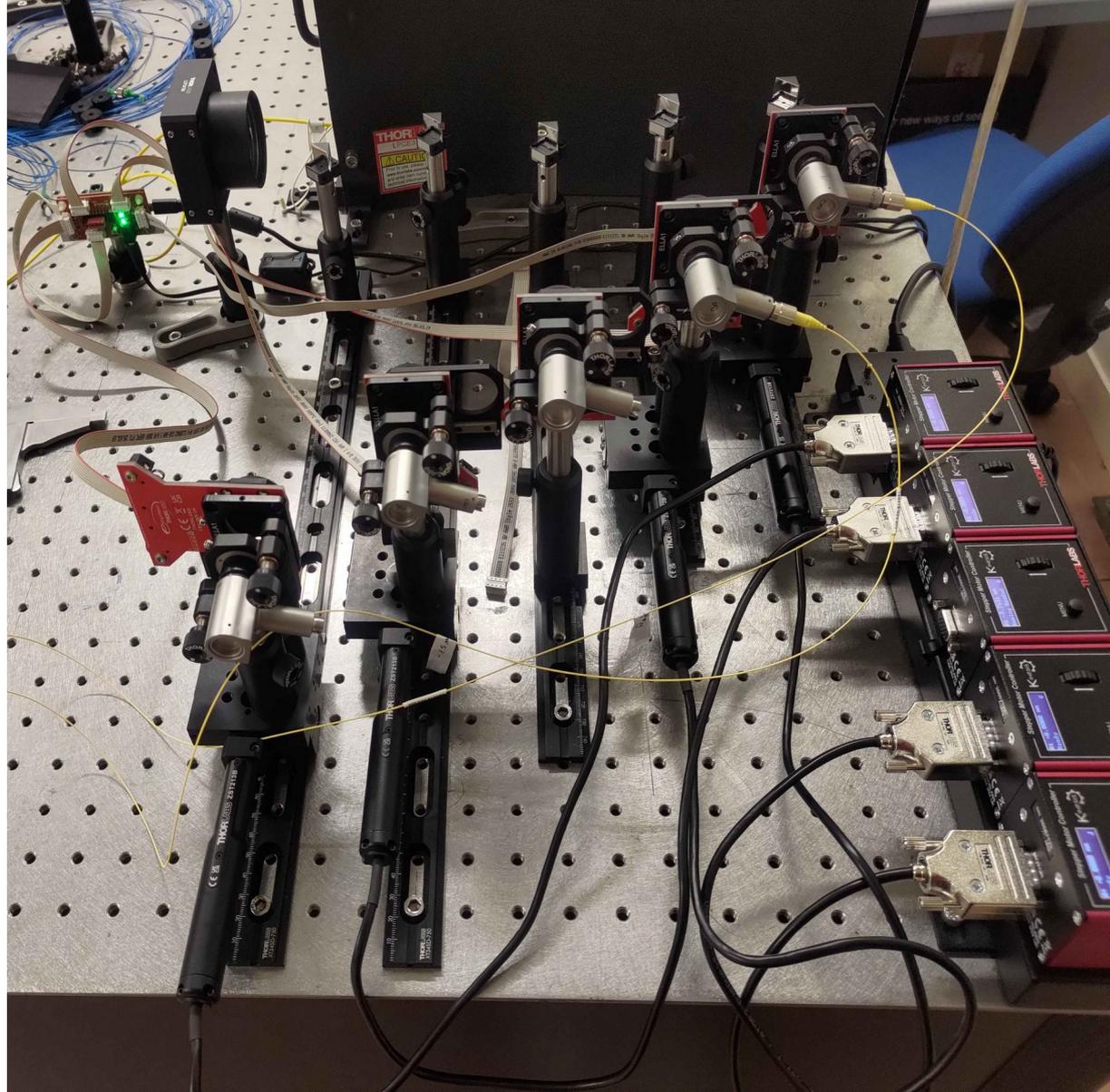
# Weekly PLANETES 12/01/26

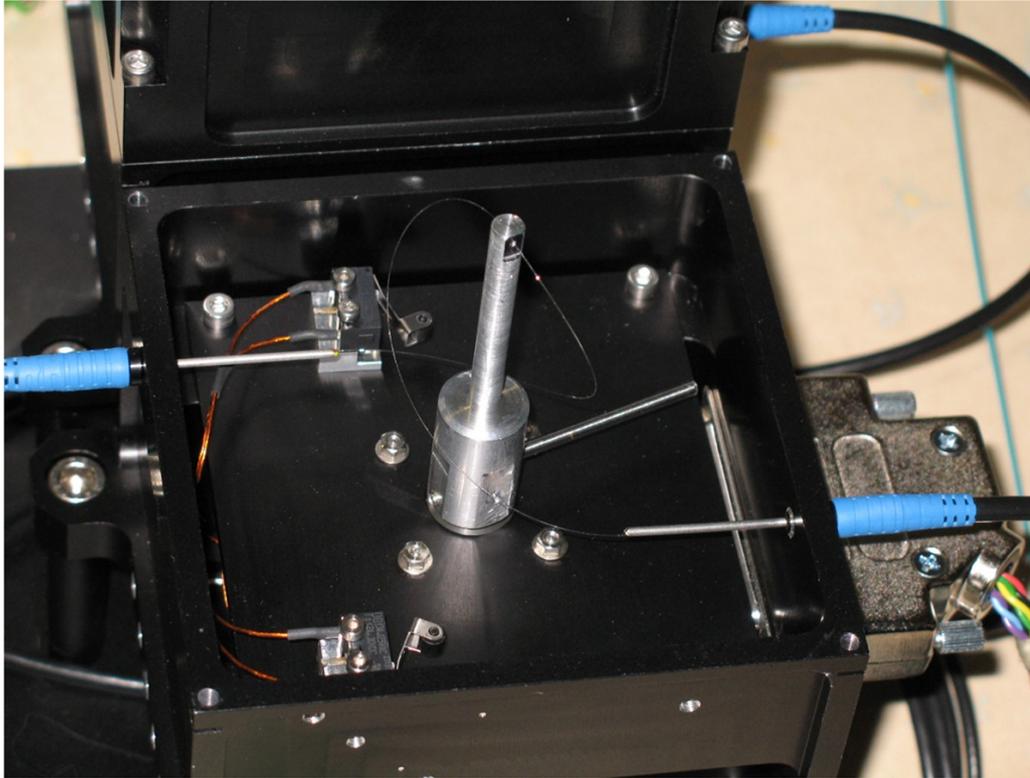
**WP2 : Beam combiner**

-Polarisation control

# Injection bench

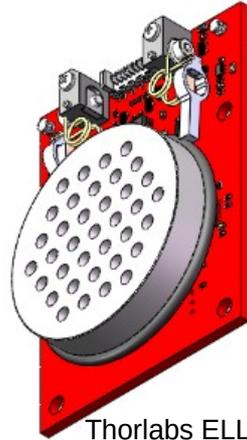
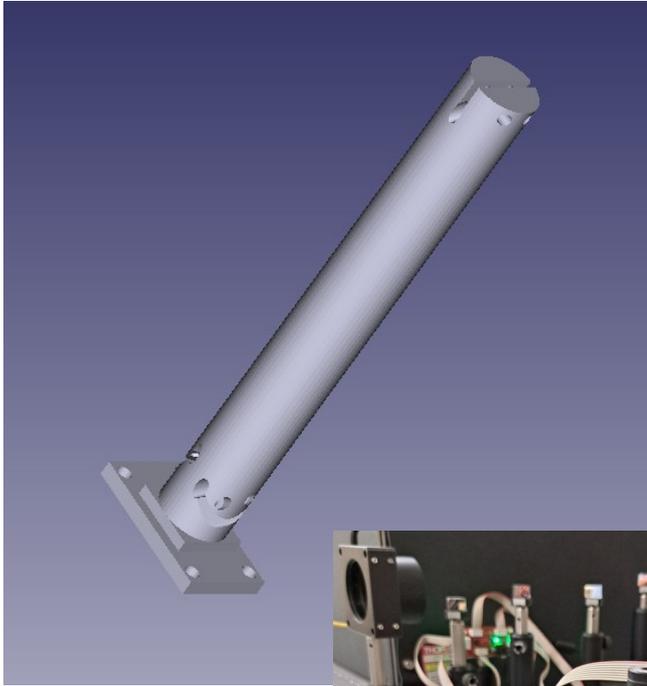
Need to add a polarization control to improve contrast



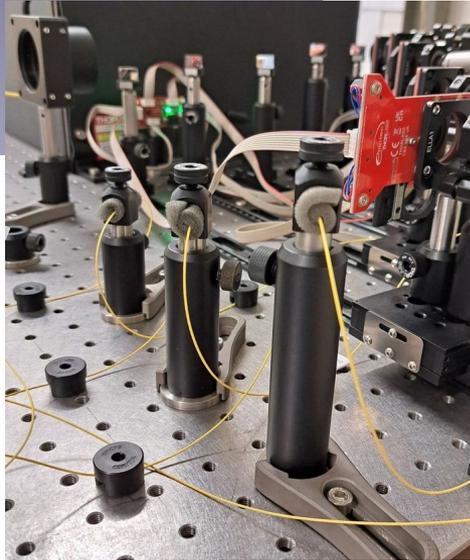


GRAVITY fibered polarization rotator

- Gravity controls the polarization by rotating the fiber



Thorlabs ELL18



- 3D model to adjust polarization on our own fibers to improve contrast
- Need adjustments :
  - Move the bottom holes away from the tower
  - Test with different tower height (currently 15cm with 10cm diameter loop)
  - Test with different distance of input and output fiber from the tower
  - Buy polarizers to tune outputs
  - Turn injection bench 90° ?

# Additional slides

- Idea to gain room : second stage above the injection bench



# Additional slides

- Spectrometer

