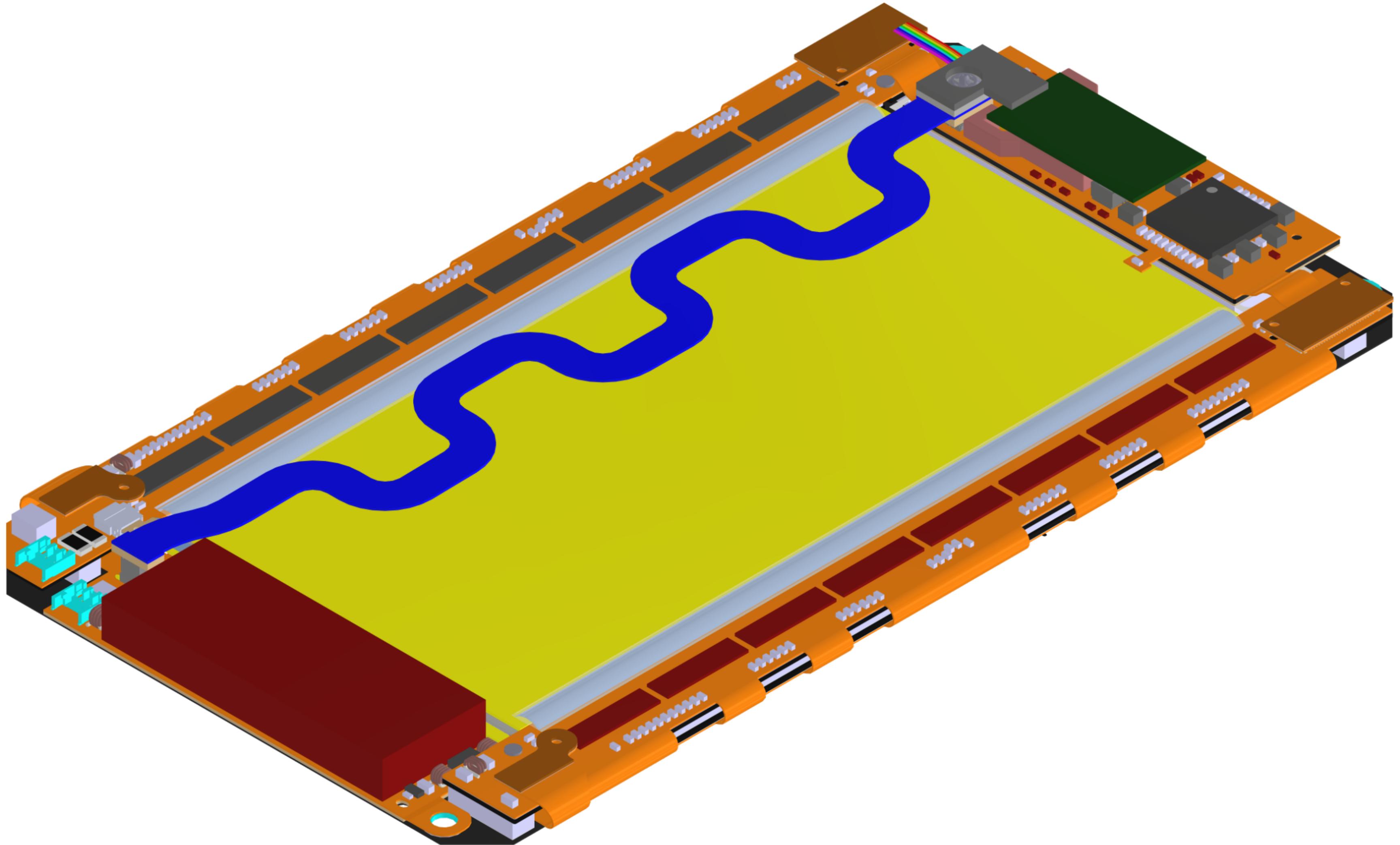


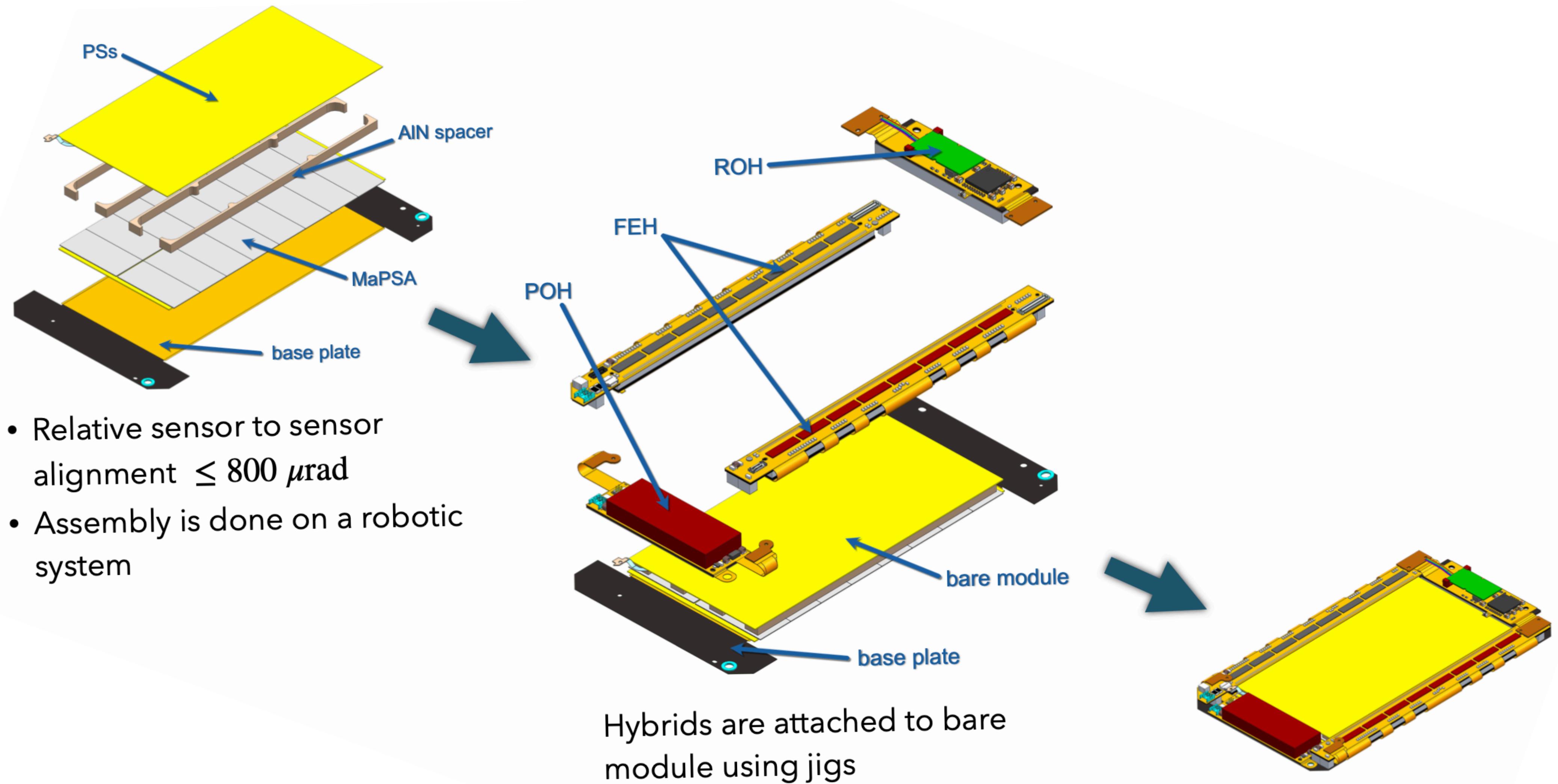
# New Module with MaPSA2



**Andrea Cardini, Ginger Cheng, Doris Eckstein, Andreas Nürnberg, Daniil Rastorguev, Younes Otarid**

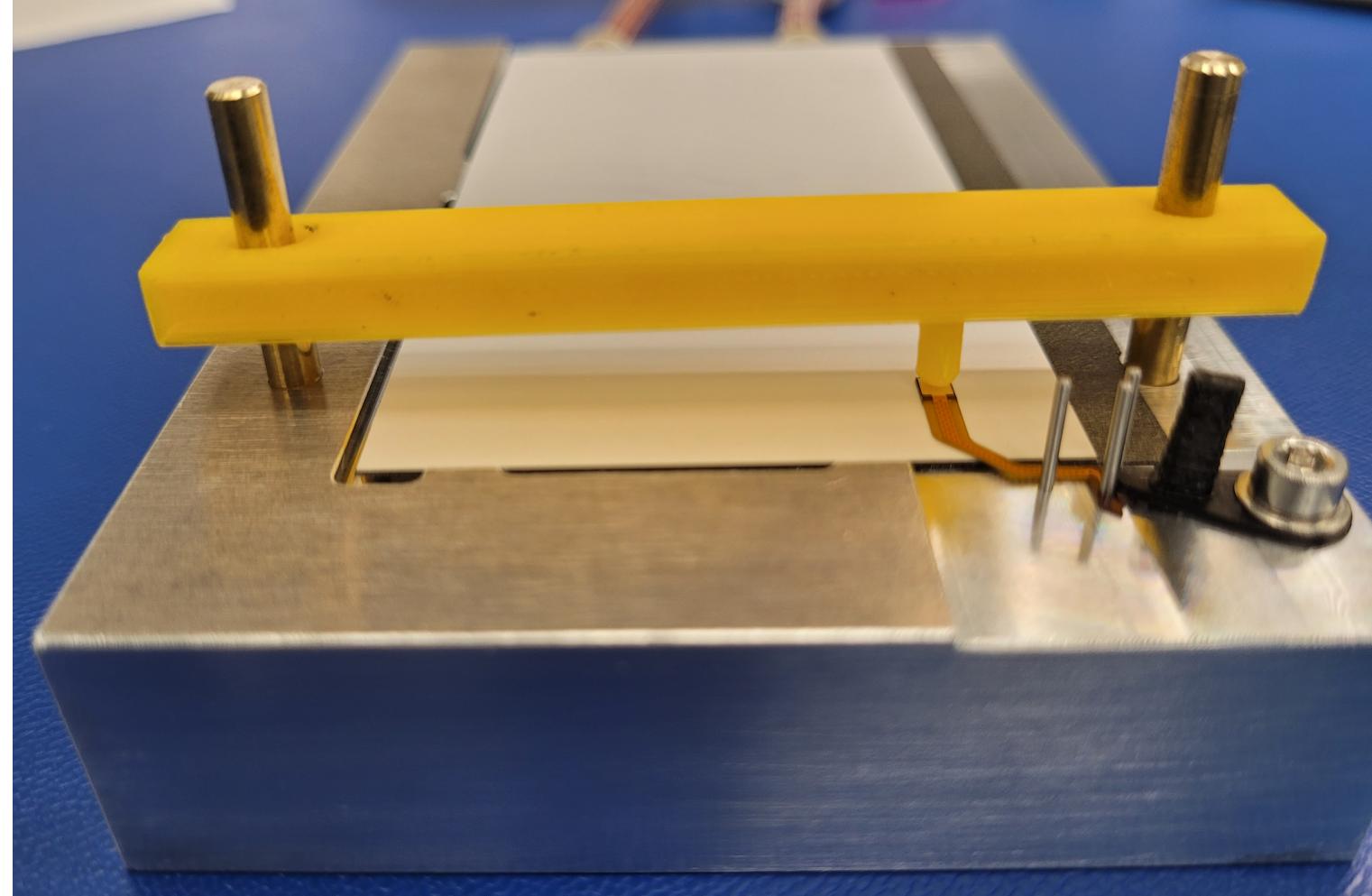


# Module Assembly - PS Modules

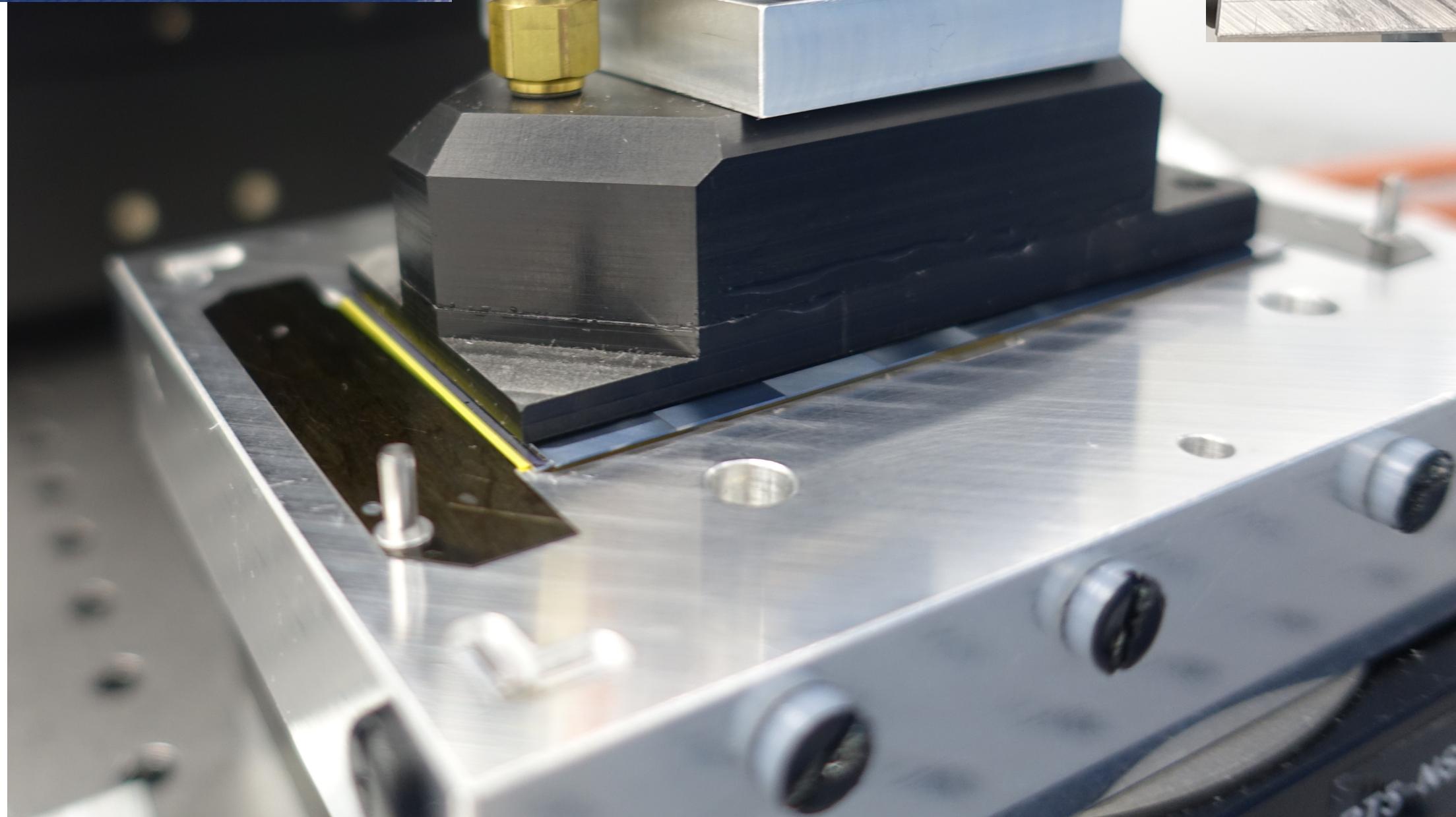
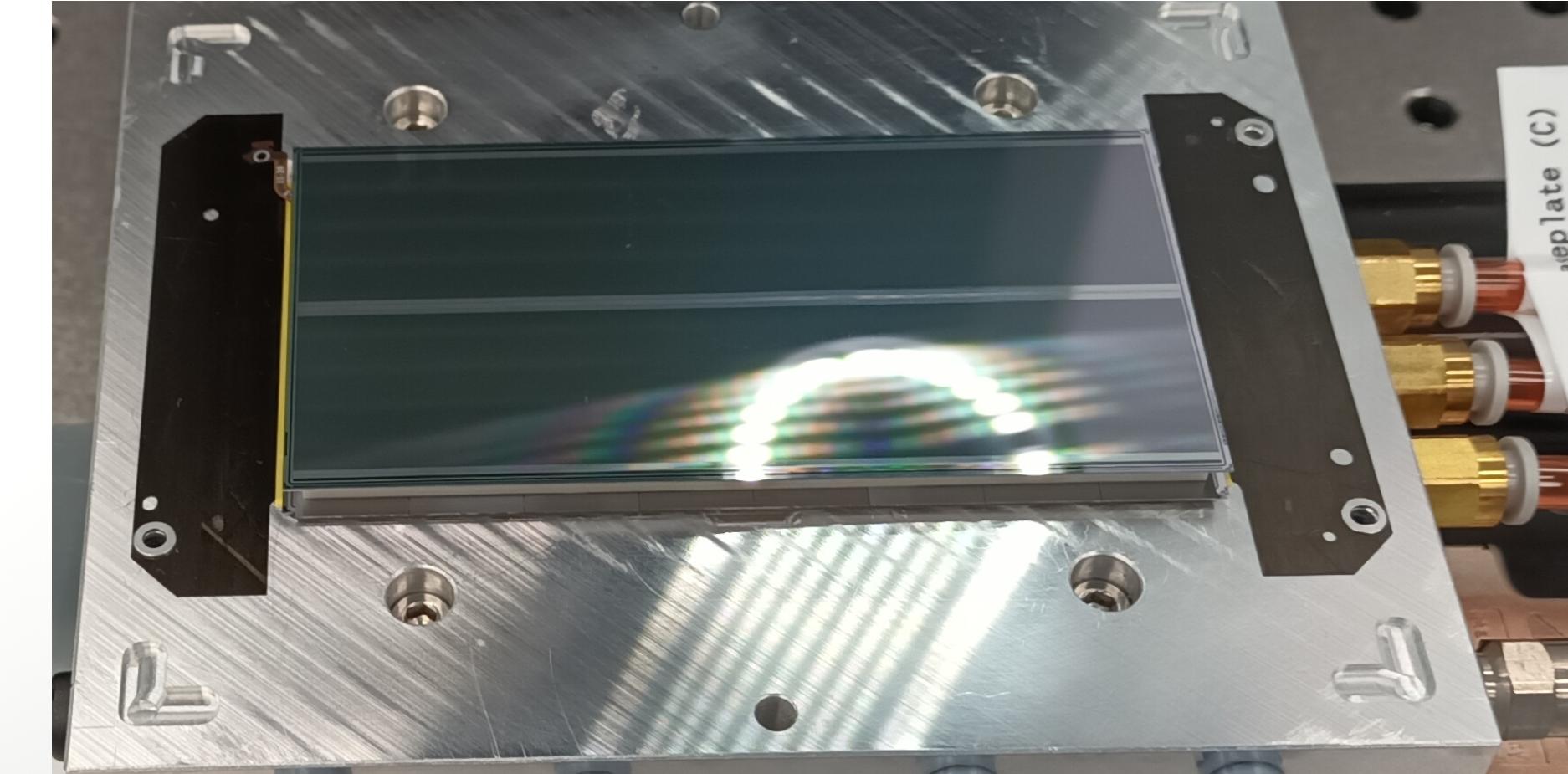


# Steps towards full module

- HV tail gluing



- **electrical test of skeleton** (all hybrids)
- **automated assembly of bare module:** CF Baseplate + MaPSA + Spacers+ PSs sensor



- **metrology:**
  - DX = 0.0006mm
  - DY = 0.0003mm
  - DZ = 3.9542mm
  - Angle (Y midlines) = 401 micro rad (0.023 deg)
  - Angle (X midlines) = 401 micro rad (0.023 deg)

Flatness of the PSs was measured to be 0.0334mm

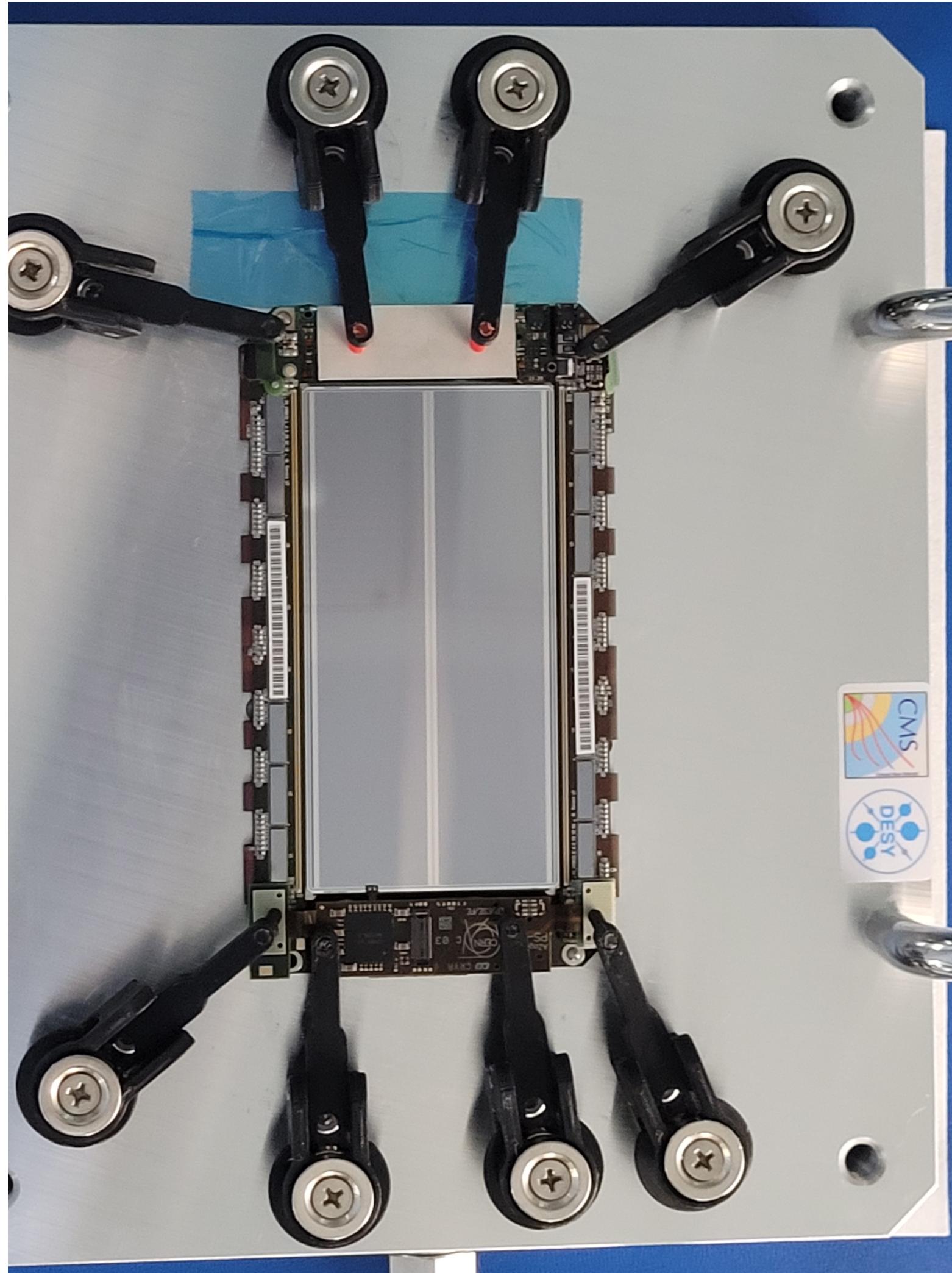


# Steps towards full module



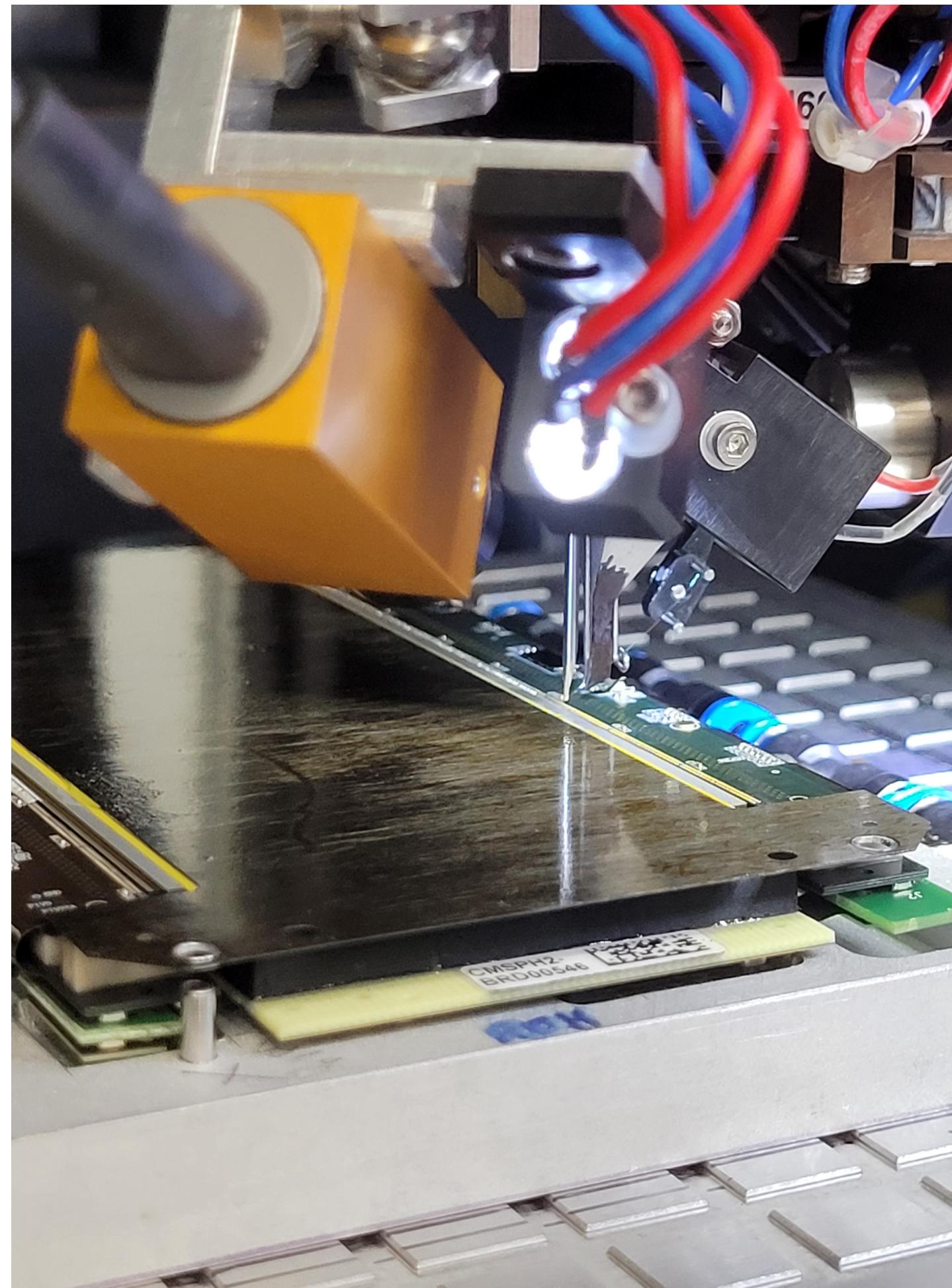
- **hybrids gluing:**

- manual assembly

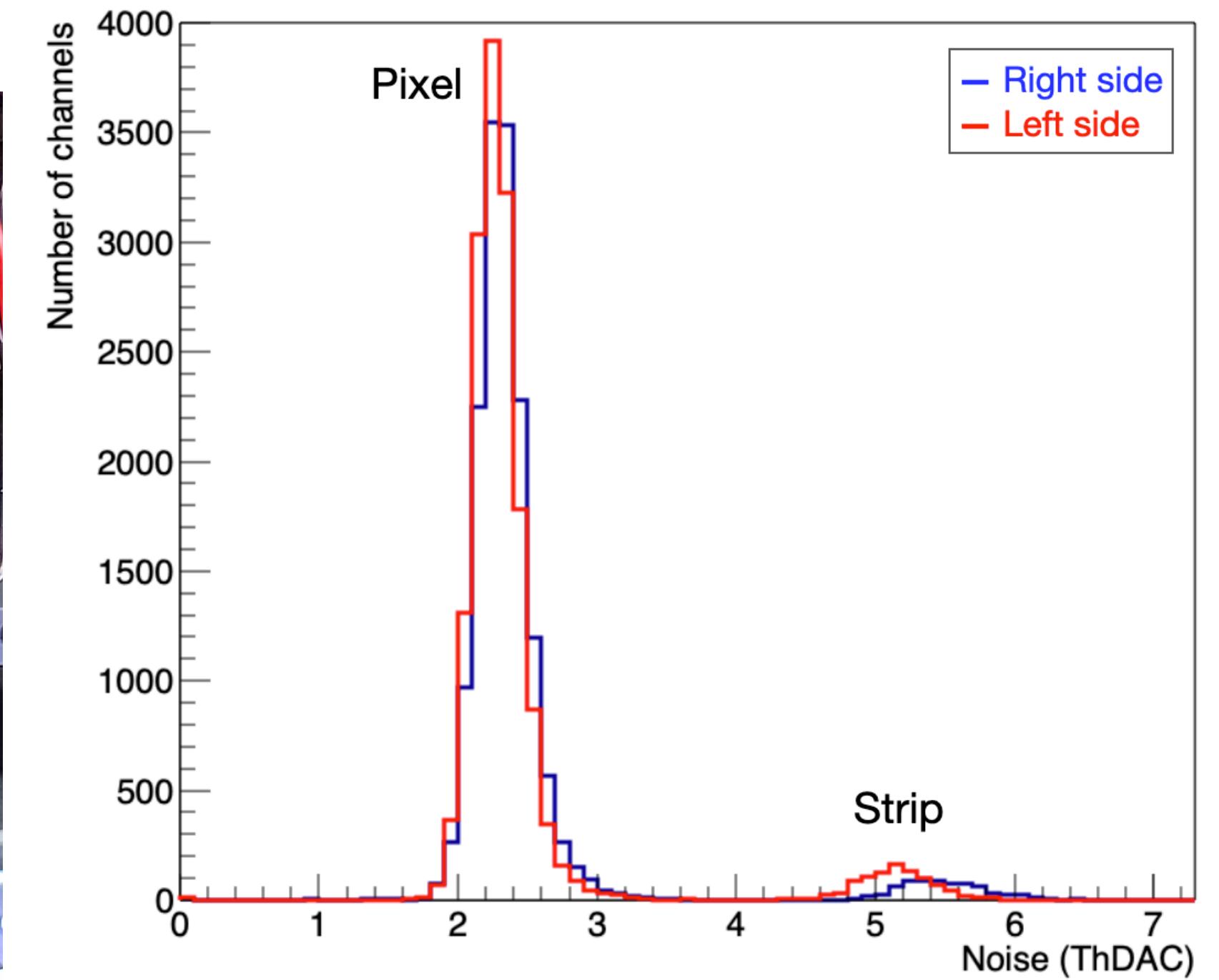


- **wire bonding**

- MaPSa side (photo) and PSs side



- **electrical test of full module**



- **next:**

- **wire bond encapsulation**
- **preparation for test beam**