





# Metrology of the PIMS Prototype



Prepared by D.PUGNAT (PIMS controller)

# **Measurement conditions**

- 3 D measurement equipment OLIVETTI Inspector Maxi 900v
- Head: RENISHAW PH10M
- SensorTP2 + Stylus Ø1mm
- Measuring force: radial: 7g

axial: 40g

- Room temperature: 20°C ± 1°C
- Temperature of pieces during measurement: range from 19.5°C to 20.3°C
- Uncertainty of measurement: ±0.006 mm

## Reference system for the discs measurement



**Origin** is the intersection point between the bore axis Ø40 (reference A) and the plane B



# Discs measurement - Main points



#### Pay attention to the piece temperature: Thermal expansion: 0.010 mm/°C for a 500 mm diameter

PIMS Kick-off metting



### Rings measurement - Main points









