

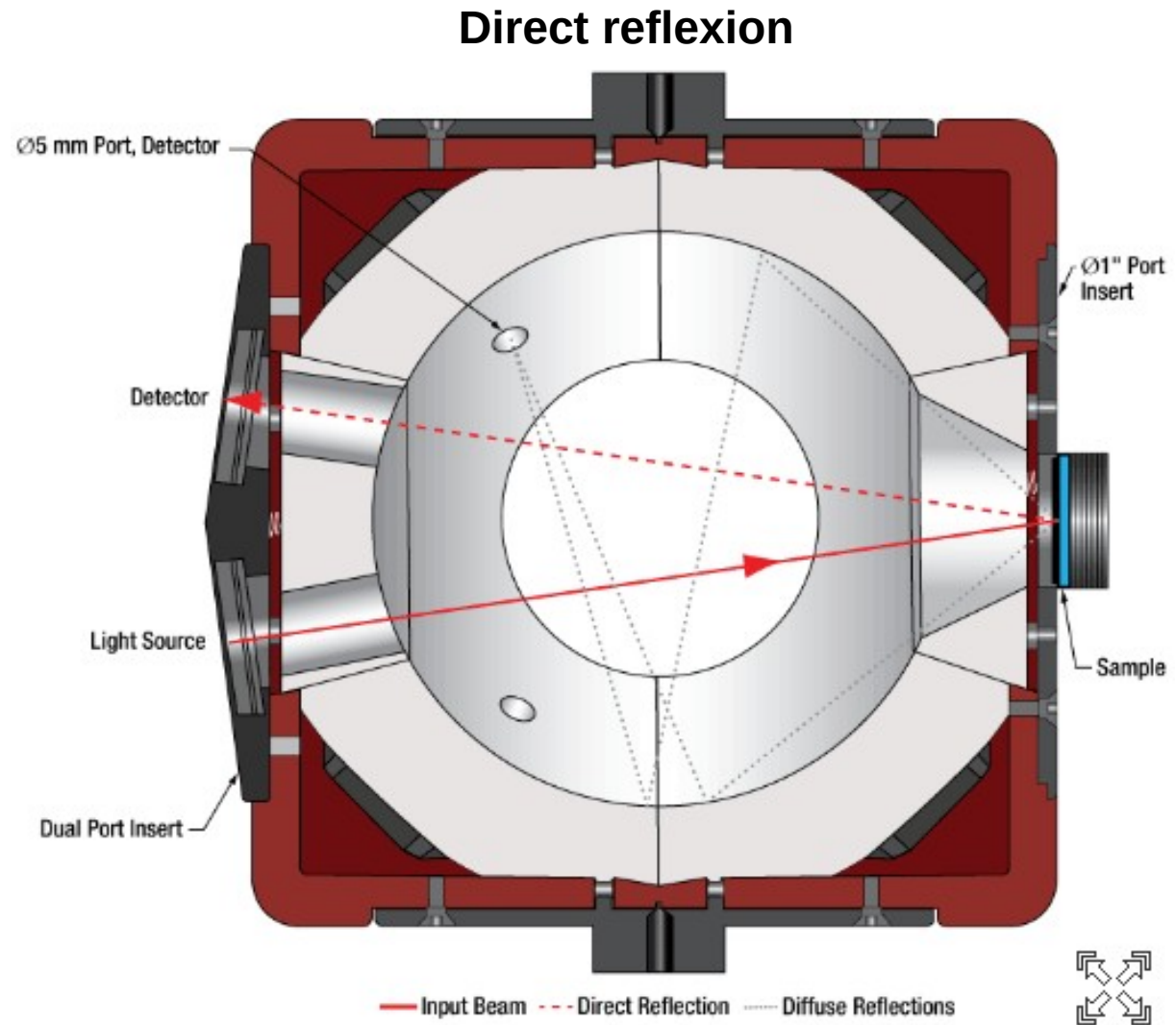
Reflectivity measurements

Objective: measure direct reflectivity of two samples

Aluminium



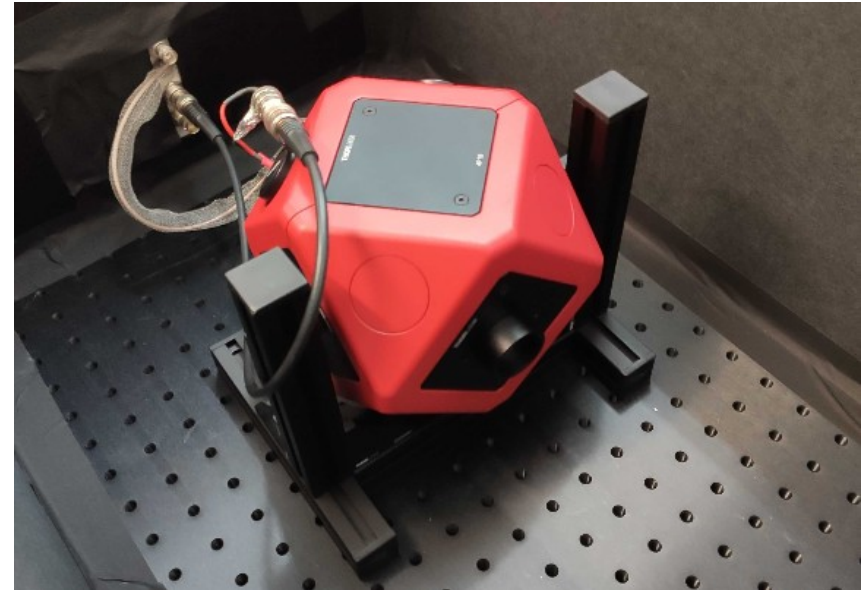
Copper



Reflectivity measurements

We've built a set-up that provides reproducible results:

- It is better to directly couple the led to the sphere
- It is better to take measurements with the keithley



Reflectivity measurements

Very preliminary

245 nm

Sample	Baseline (nA)	Led ON (nA)	(%)
Teflon Reference	-0.33	74.51	
Aluminium	-0.34	78.58	105.5
Polished copper	-0.11	44.56	59.7
Unpolished copper	-0.30	34.64	46.7
Open		31.03	

430 nm

Sample	Baseline (nA)	Led ON (nA)	(%)
Teflon	-0.24	807.1	
Aluminium	-0.28	583.8	72.3
Polished copper		409.3	50.7
Unpolished copper		348.2	43.1
Open		325.6	

Measurements taken without polarizing the photodiode and continuous led

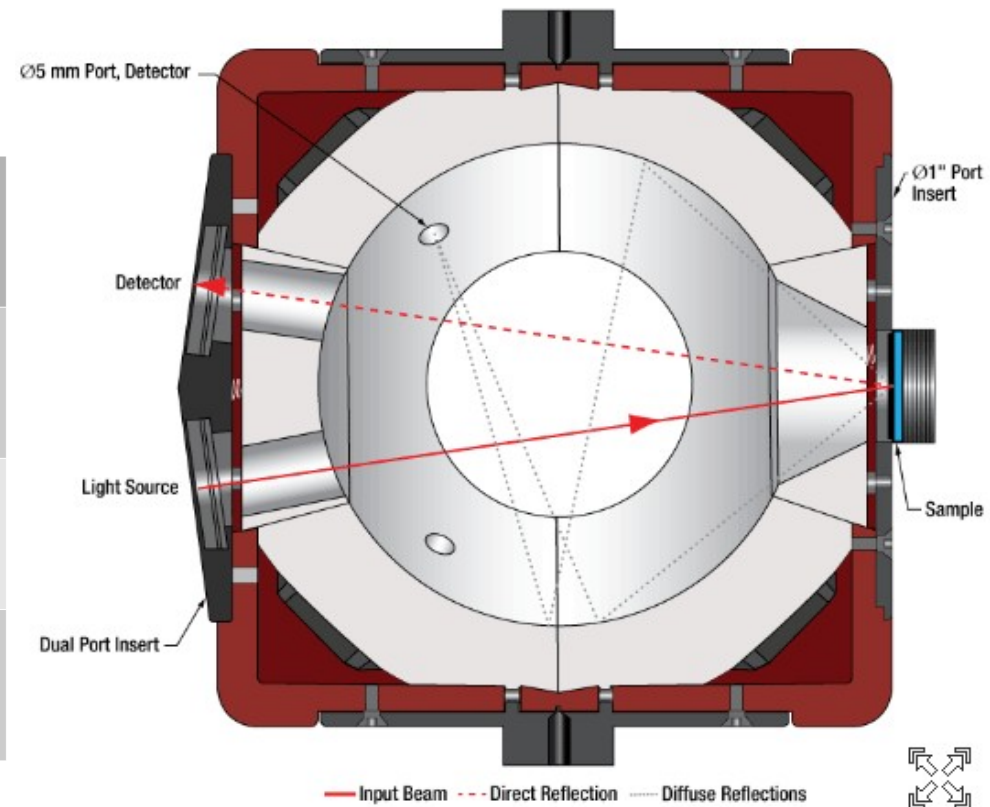
Reflectivity measurements

Very preliminary

430 nm, first attempt of diffuse reflection

Sample	Baseline (nA)	Led ON (nA)	(%)
Teflon	0.00013	85.9	
Aluminium		52.06	60.6
Polished copper	-0.00038	41.62	48.5

Difuse reflexion



Measurements taken without polarizing the photodiode and continuous led

Reflectivity measurements

- We performed measurements using the ICMOL spectrometer
- Preliminary results (200-450 nm):
 - Teflon 98%
 - Aluminium 80%
 - Copper < 15%
- Waiting the output data

Deuterium + halogen lamp

