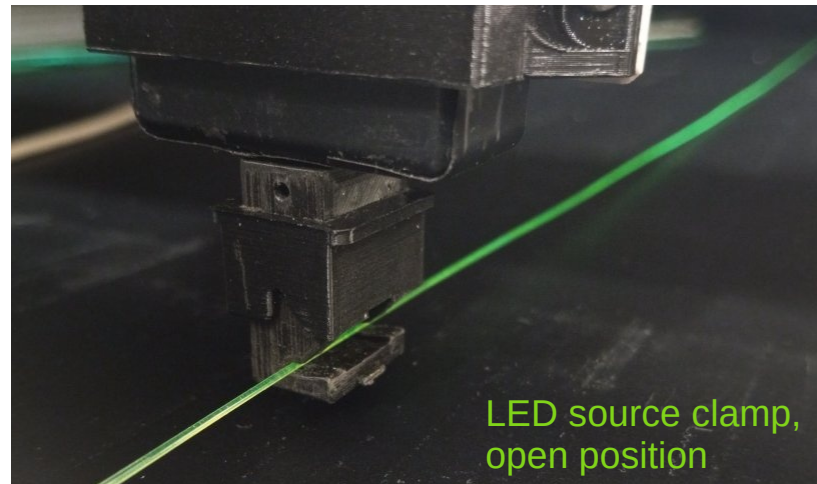
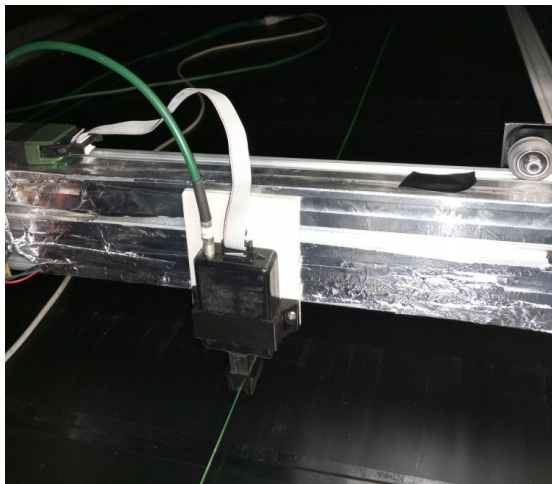
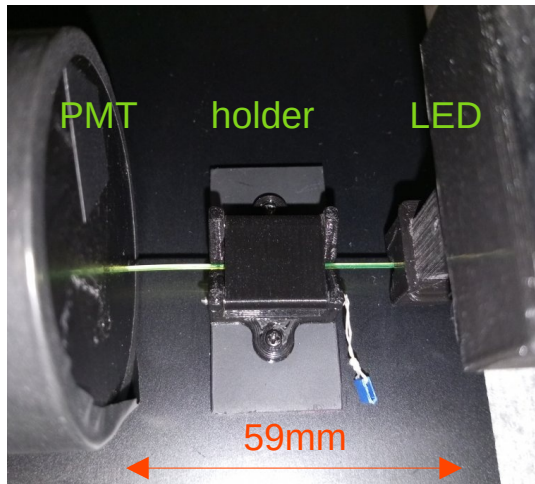
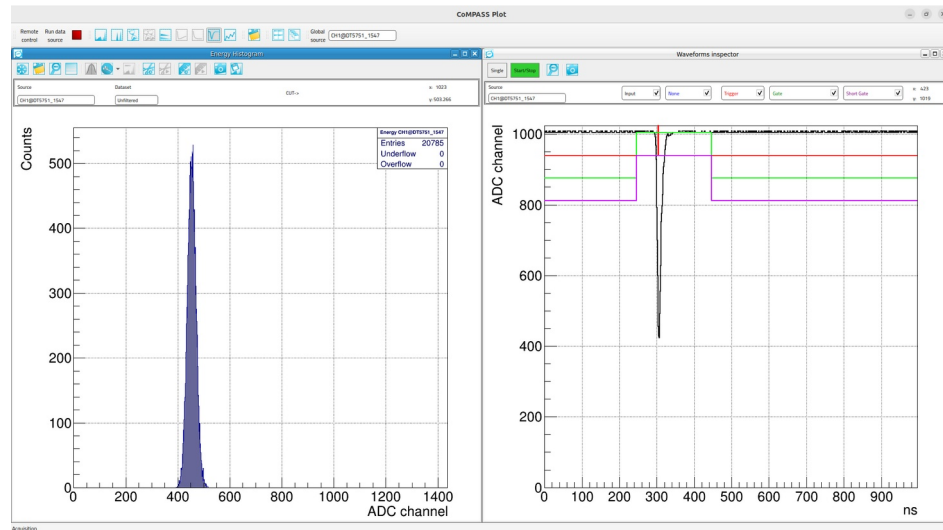
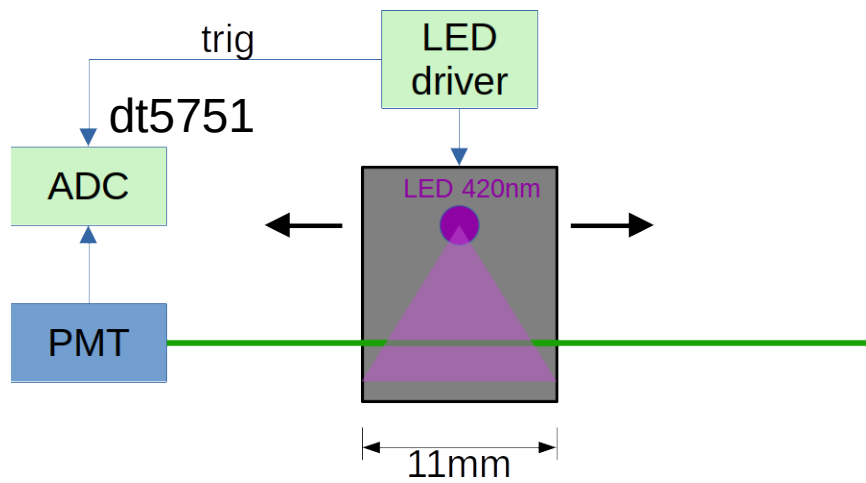


The measurements of attenuation length of WLS fibers

3.07.2024

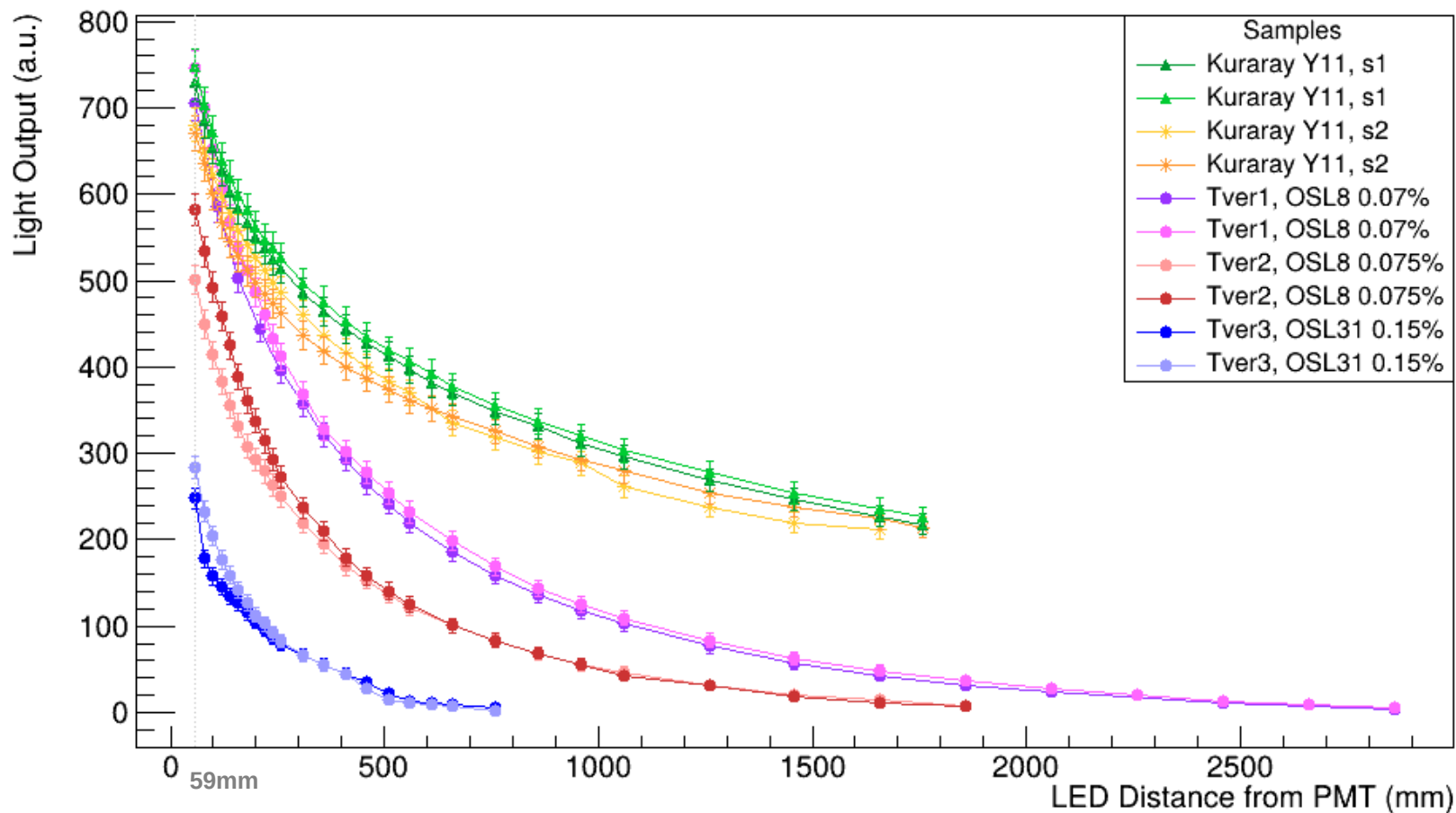
Experimental setup



Samples

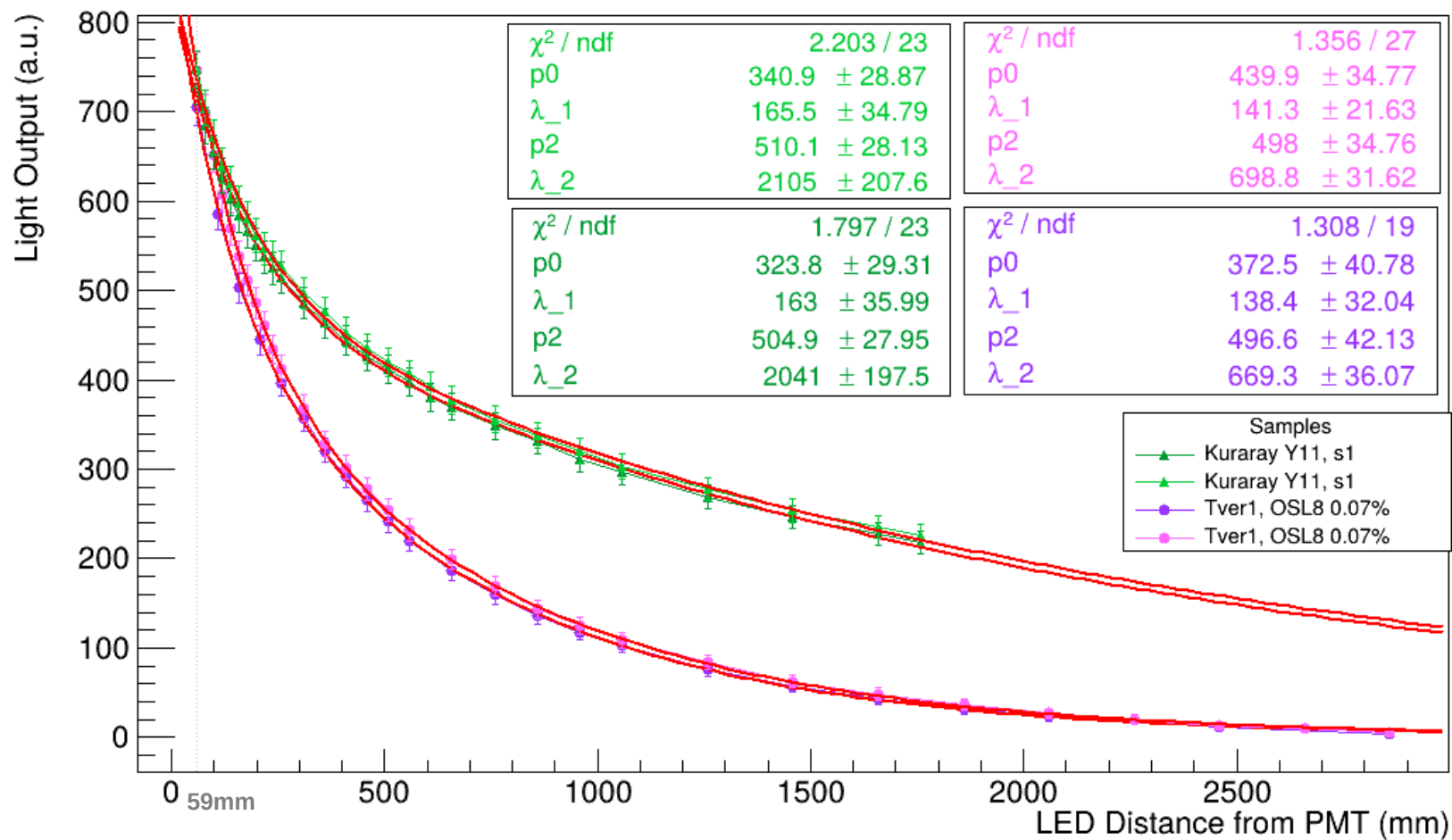
Sample	L (m)	D (mm)	Shifter
Tver 1	~ 5	1	OSL8 ? 0.07%
Tver 2	~ 5	1	OSL8 0.075%
Tver 3	~ 5	1	OSL31 0.15%
Kuraray Y11 (ICARUS)	~1.8	1	K-27
Kuraray Y11	~1.8	1	K-27

Light output vs distance from PMT to excitation point

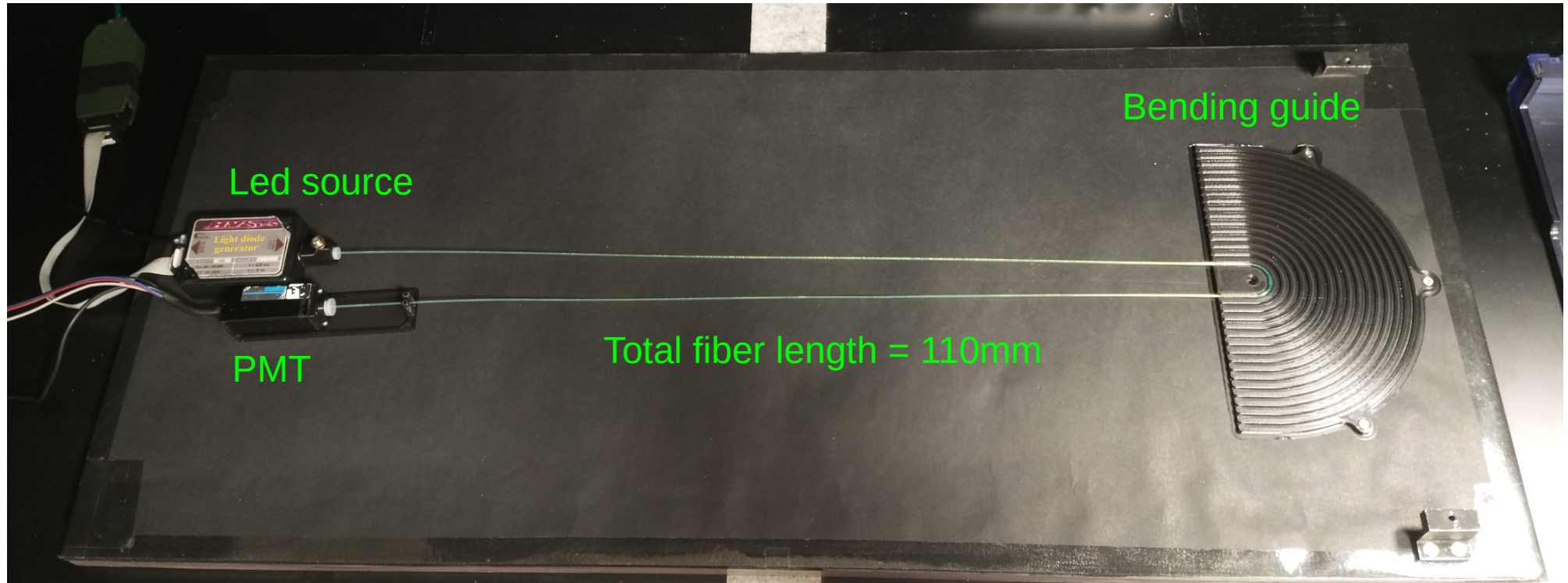


Identical names in the legend - measurements for different ends of the same fiber.

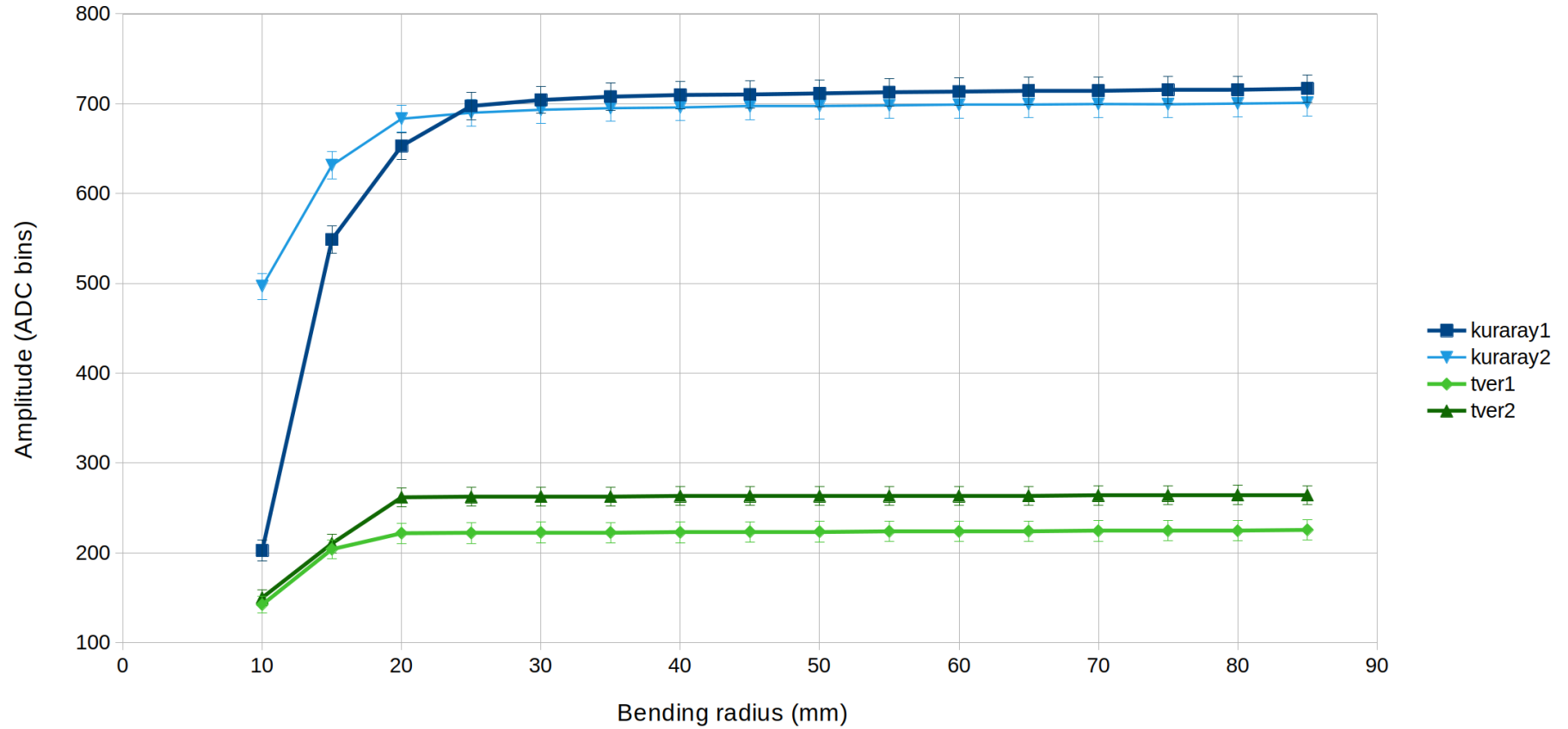
Light output vs distance from PMT to excitation point



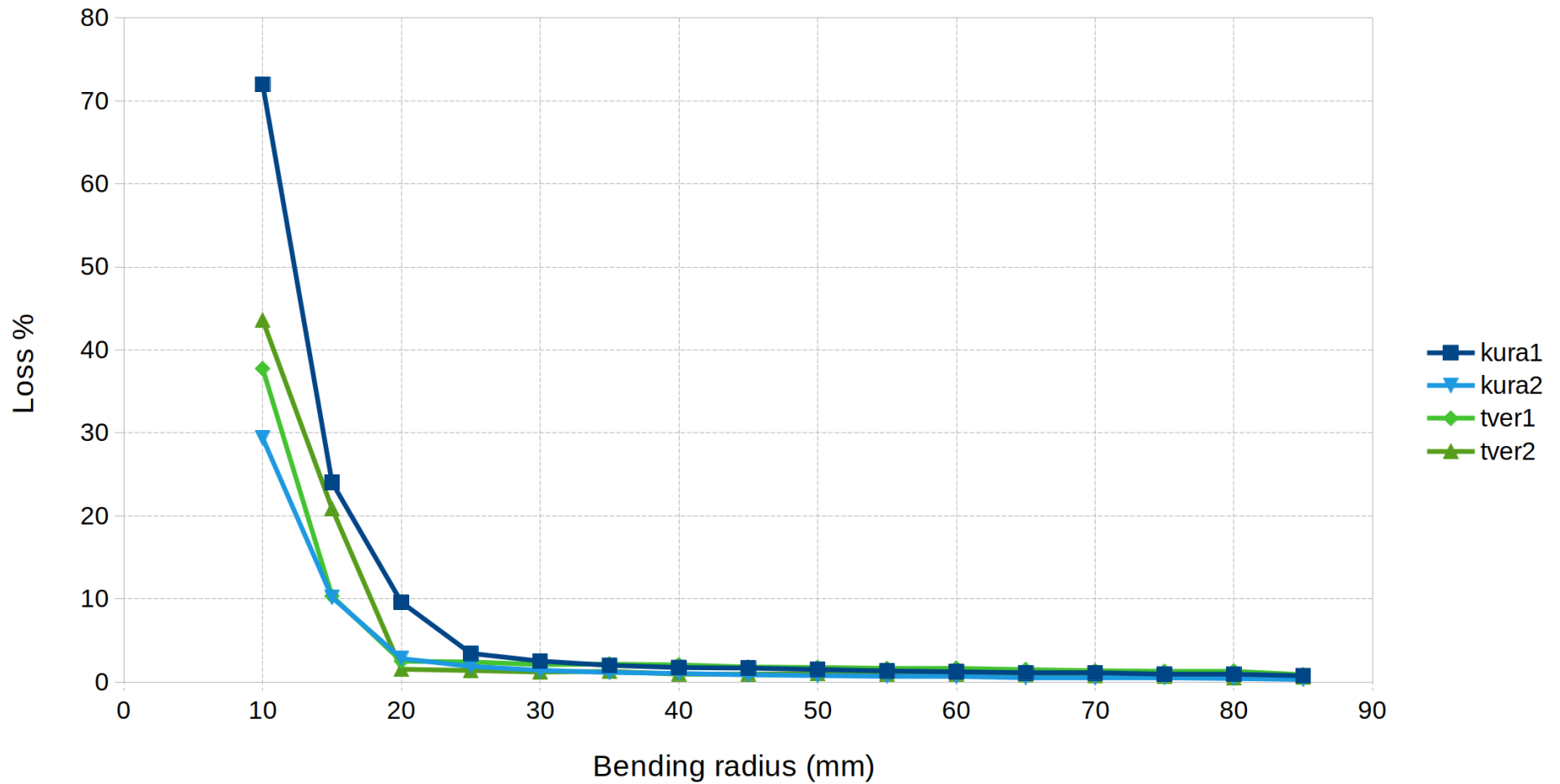
Setup for fiber bending losses measurements



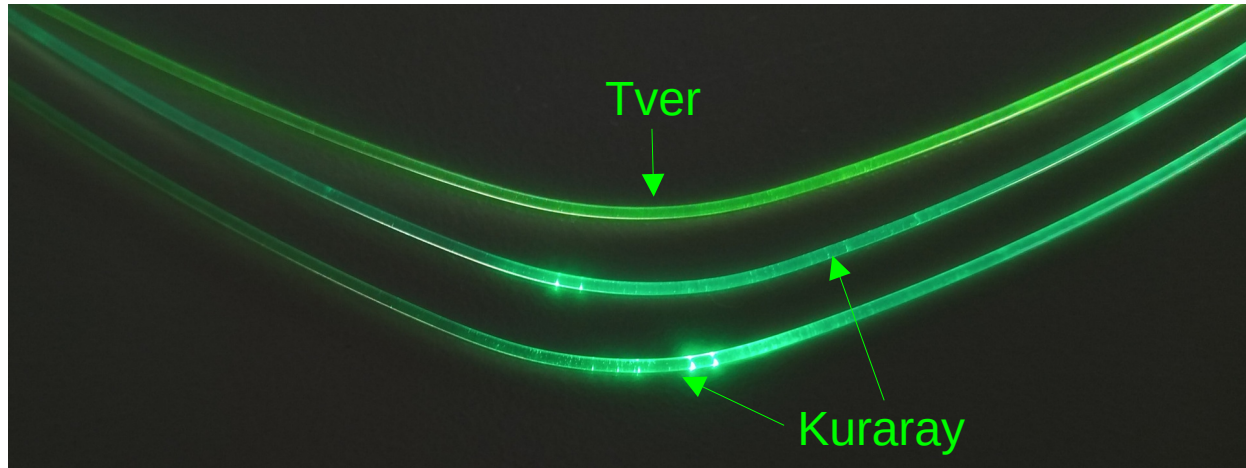
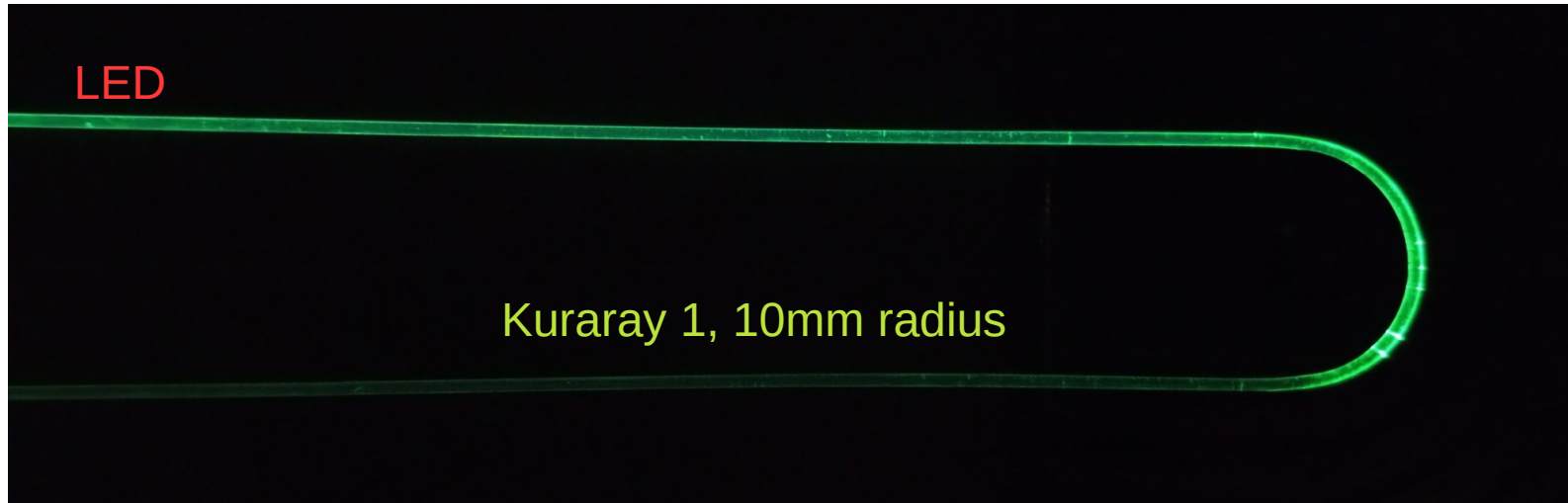
Transmission vs bending radius



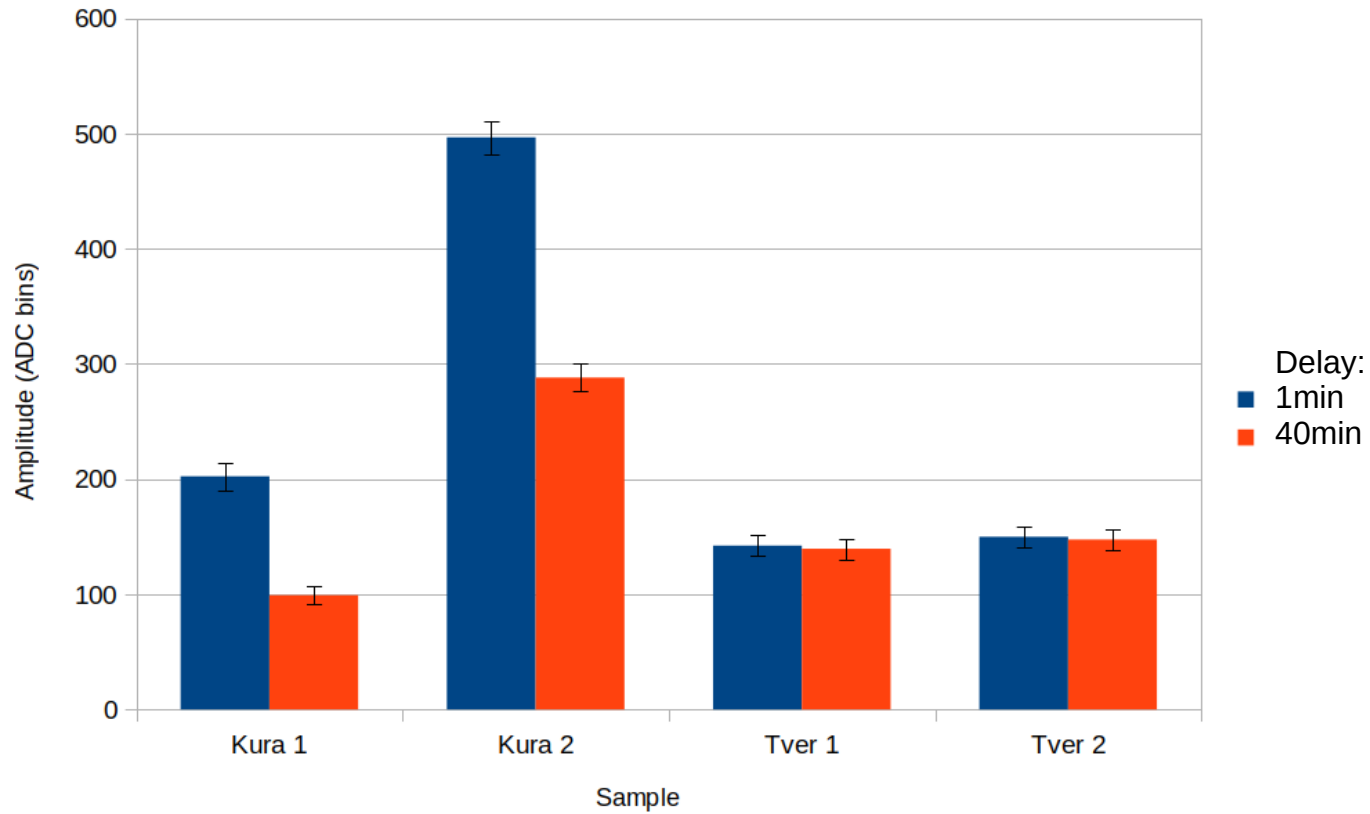
Losses vs bending radius



Cracking of kuraray fibers

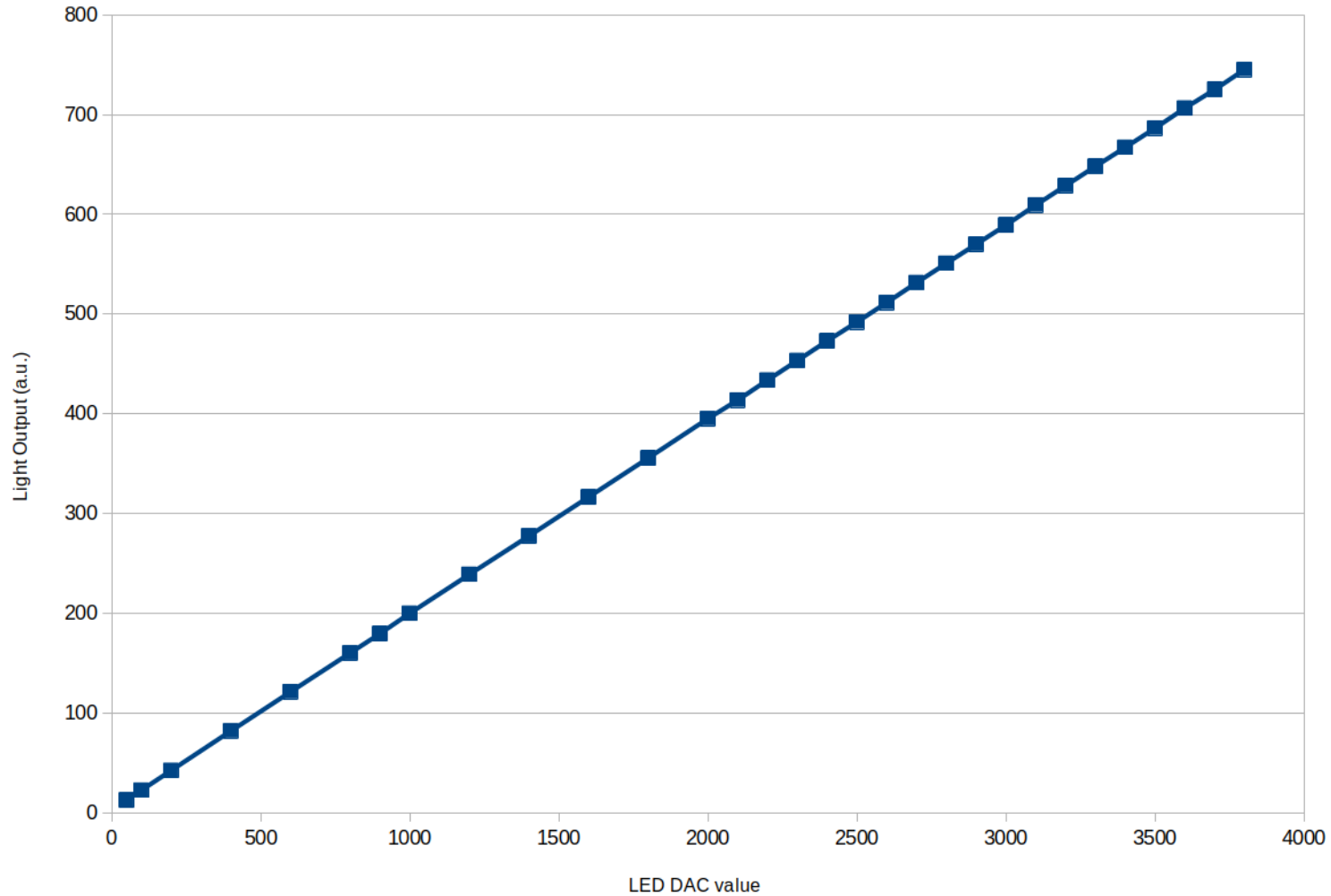


Dealyed light transmission degradation, 10mm bending radius, ~40min delay



Backup slides

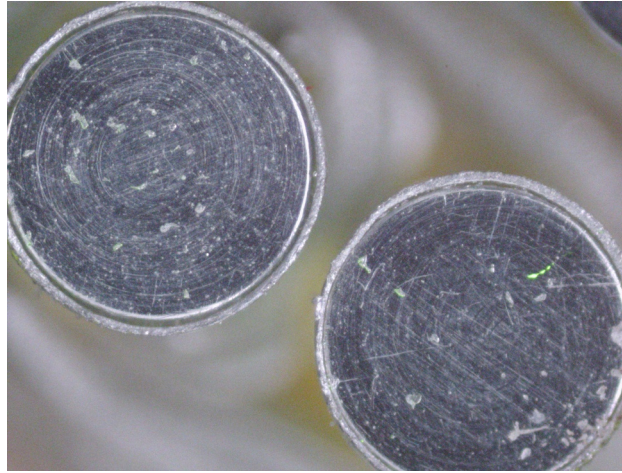
Linearity of the measurement system



Al coating of 600mm fibers



Tver OSL8 0.07%



Kuraray Y11

