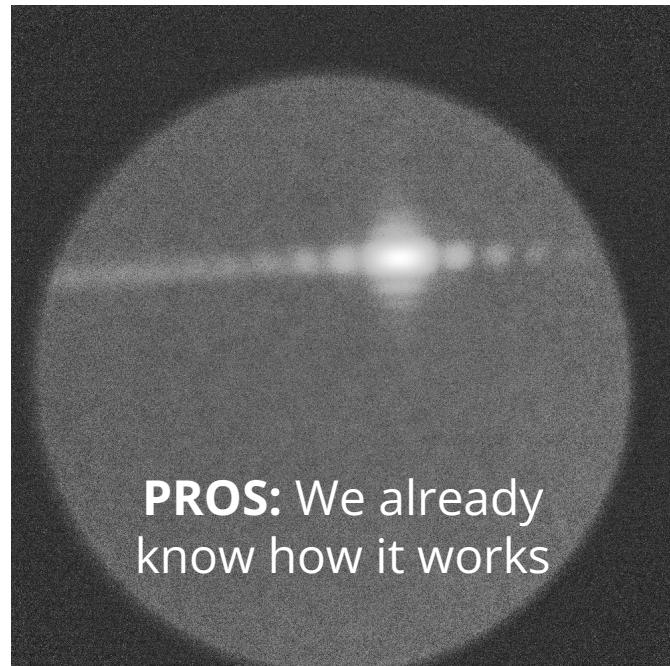
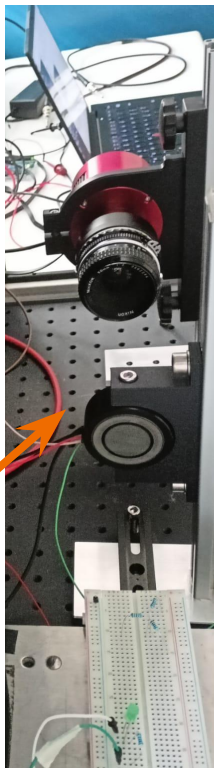

MCP Options

— RIPTIDE meeting 12/02/2025 —

Alberto, Claudia, Cristian e Riccardo

PHOTEK: tests, options and costs

- double MCP (Gain : 10^6)
- can reach single photon imaging
- wout CMOS : 16680 +iva € = 24.5 k€
- w CMOS: € (+ optical fibers) > 50 k€*
- wout optical fibers/optics is very difficult to align (almost impossible)



PROS: We already know how it works

* si può trattare un modello custom

LAMBERT: options and costs

	TRiCATT	HiCATT	HiCAM Fluo
single MCP Gain 10^4	✓	✓	✗
double MCP Gain 10^6	✓	✓	✓
cost	~50 k	~70 k	100k
speed	<1ms	??	??
Phosphour	??	??	??
w CMOS	✗	✗	✓



possibility to borrow the full set-up and test-it...

Discussion on strategy: what to do...? which MCP?, Plans, budget review...Is it possible?, time-schedule

- Bisogna capire se Cyclone + MCP possono funzionare per noi
- Il costo per un sistema CMOS + MCP “plug-and-play” è elevato