

Carbon Fiber sources

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QUBIC COLlaboration Meeting
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- electronics & control command : dedicated circuit under test ; control system software as well (F. Wicek, LAL).
- mechanics : source interface parts under realization at LAL (J. Bonis, in collab. with APC)
- need to define exact location with optics simulations (M. De Petris)

Interfaces

- C fiber sources will be linked to the switch plate.
Mechanics defined, but exact place to be finalized. Should it be integrated for the TD and for the FM (place will be different) ?
- fibers will be power-supplied by our electronics : need to connect them through cryostat not frozen
- control PC interactions with main system (e.g. to get system's timing in order to pulse at a constant phase wrt system) not defined (is it needed ?)

Tests & calibration

- will check fiber status in cold environment (at IAS ?) : resistivity vs temperature
- transport to APC : RAS
- integration
 - ▶ should be done when switches plate is integrated
 - ▶ tests : electric connectivity of each fiber
 - ▶ 2-3 FTE for ~ 1 day ?
- calibration
 - ▶ exact tests to be defined - see document we sent around
 - ▶ ~ 2 FTE ??
- budget : ~ 3 keuros (control PC + scope) in 2016, spent , negligible after this