

Detector "installation" (M. Bonesini)

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To be first and to be wrong is not so good (Σ . X.X. $T\iota\nu\gamma$)

- A full detector debugging, testing with cosmics at home
- to solve (before installation) problems that show up (eg H6533 problems with active divider)
- a careful survey of constraints in the hall (beamline height as an example, ...) and preparation for installation
- is a must in my mind before any installation attempt, to avoid delays/failures especially for small teams were working people may be enumerated before arriving to the value of e or π

TOF status (+KL) constraints

- a tight INFN funding will be available beginning of March (if approved in INFN director board of end February)
- We need to minimize installation and transport costs (we have only one transport to RAL paid for all TOFEs + KL + support of TOF2+KL+SW(?) + temporary support for TOF1 and reduced travel budget)

Work in progress



TOF0,1

- Counter assembly finished (light-guide production, glueing, wrapping, preliminary tests)
- TOFO counters under test with cosmics. Problem: PMTs are lacking ... some are missing, some are broken, some are bad. Out of 70 nominal PMTs it is a problem to get 40 of good quality for TOFO ... It seems that the active dividers are quite bad...
- Then test of laser injection, cables, ...
- TOF1 will be tested afterwards, but new PMTs ordered will begin to arrive only at end of March ...
- 5. Support platform for TOF1 under construction

Cosmics testbench









With help from J.S.









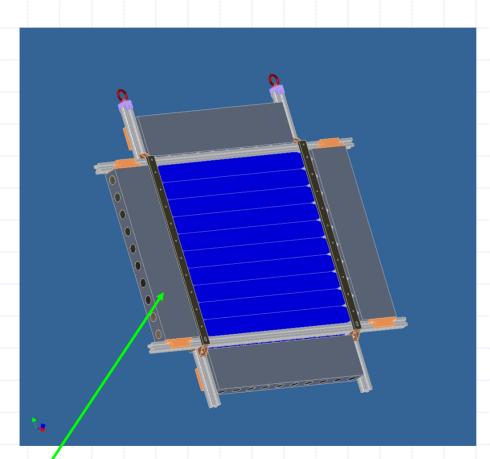


TOF2:

- Design with local shielding (see later): iteration with Rome3 for support platform for locally shielded TOF2+KL+ SW(?)
- Orders placed: scintillators, PMTs, lightguides ... but delivery is not so prompt (eg PMTs delivery from end March to June)
- We will start assembly of TOF2 barrettes probably mid April-May







Assuming local PMT shield will work for TOF2

- CAD design for TOF2 frame+local bar PMT shielding+ support
- structure is not much more complicate and expensive than not shielded TOF2

~30 Kg

KL/TOF2 interface



- TOF2, KL and eventually SW will be mounted on a common support, provided by RM3
- it is not an easy task to interface TOF2 magnetic shielding to KL one: it is in the hands of Rome3+MIB mechanics workshop (A. Iaciofano/R. Mazza)
- but clearly practical solutions must be sought (mechanics simplicity, weight, ...): the "best" is in only in God's hands

Conclusions



- work is progressing, but problems are showing up continuosly (the last is the bad PMTs behaviour ...)
- delivery to RAL will be clearly in a shutdown period, when most of the first bunch items will be ready and fully debugged (TOF0, TOF1, KL, support for TOF2+KL, temp. support for TOF1).
- any help and support will be clearly useful





To be late and to be right is not so bad ($\Sigma X.X. Tiv\gamma$)