



Front end Hybrid Industrial Tester



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In collaboration with

RWTH Aachen (M. Axer, F. Beissel, T. Franke, J. Mnich)

IRES Strasbourg (JD. Berst, P. Graehling, P. Juillot, C. Maazouzi)

<http://www.fynu.ucl.ac.be/themes/he/cms/activities/tracker/hybrids.html>

rather big ones...

- Current measurements ???

Solved

LERNI transition : info needed

Solved

How many FHIT are needed ?

Being solved

Noise test : not reproducible

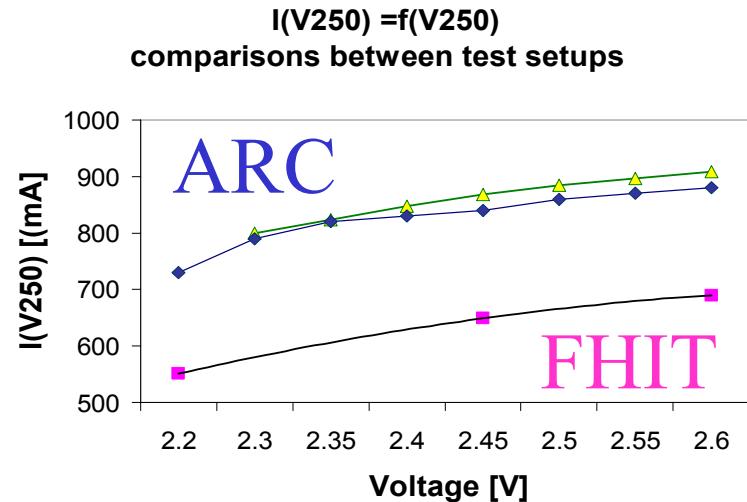
fairly small ones...

Being solved

tolerance intervals (on currents,...)

Being solved

New part numbers (as now TOB \neq TEC)





Needs in FHIT



Proposal :

CERN	1 mono-FHIT
<i>per</i> Industry	2 dual-FHIT
Strasbourg	1 mono + 1 dual
Aachen	1 mono-FHIT
Other labs	0
+ Louvain + spare FHITs	...



Proposal for acceptation intervals on currents...
(from statistics)

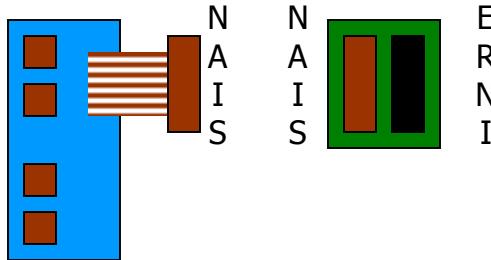
I ₁₂₅ one APV biased	V _{min}	[42 ; 78] mA
	V _{nom}	[48 ; 84] mA
	V _{max}	[52 ; 88] mA
I ₂₅₀ one APV biased	V _{min}	[220 ; 320] mA
	V _{nom}	[300 ; 400] mA
	V _{max}	[320 ; 420] mA

FROM Statistics on FHIT measurement

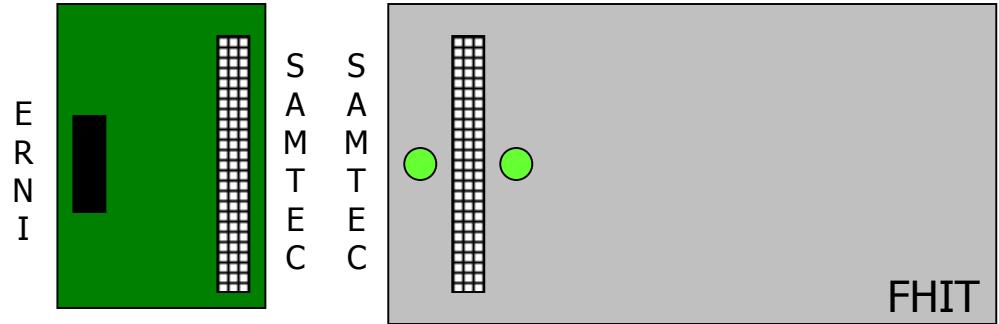
I ₁₂₅ all APV biased	V _{min}	[] mA
	V _{nom}	[] mA
	V _{max}	[] mA
I ₂₅₀ all APV biased	V _{min}	[] mA
	V _{nom}	[] mA
	V _{max}	[] mA

FROM Statistics on F HIT measurement

- Remind that F HIT measurement on currents are *not the same as the ones from other test stations* (*P Graehling*)



To be tested



Test setup

@ Industry

- Naked hybrids (w/o APVs)
- Hybrids

@ CERN

- Before bonding pitch adapter → LINK to DB (XML)



Next weeks...



Software refinements

(Compatibility with ERNI, new part numbers)

... and FHIT can be sent to industries...

XML translation

Hybrid emulator