

Time Schedule 2012

	March	April	May	June
PSI	retest Modules, transportation Box	transport Modules	TB etc for digital chip	new Chip arrival, build single ROCs
ETH Pixel Lab	setup/rewrite supervisor	retest Modules	TB etc for digital chip	test new single ROCs
coolingbox construction	mechanical assembly, order electronics for 2nd and 3rd box	mechanical assembly, electronic assembly	electronic assembly	setup 2nd Box in the Lab

Cooling Boxes

- currently Parts are being built in the workshop (expected end of March)
- we need to order electrical parts for box 3 and possibly missing parts for box 2
- document assembly (photo camera, where is it??)
- invite Peruggia & CERN to ETH

Module testing

need to test all modules from PSI (Pilot-Setup: 48 + ~15 half modules + ~15 “normal” modules)

yesterday	tested 3 modules @ PSI cooling box, including IV curves
on monday:	rent a car and bring them to ETH (talk to Wolfram)
on tuesday:	do IV Curves with modules and see if IV-curves still look the same
on wednesday:	if test was successful, bring all modules to ETH and test them

supervisor

change from bash script to Python,

cvsStatus	???
hvOn/hvOff	control Keithley
jumoReset/jumoSetTemp/ jumoWait	control JUMO
openPipes	PSI46expert function, not yet fully understood
runMonitor	check results, stops/skips tests for broken modules
cyclingMonitor	do the temperature cycling
shutdown	kill all programs
doTest	runs the current test in psi46expert
watchDog	kills everything if temperature/hum to high

new ideas for sv

use subsystem:

server <--> client system for communication of programs,
a client subscribe a “abo”, it can receive and send on this abo

advantage:

- central Logging (including timestamps, etc), thus easy to check if everything works correctly,
- simple to add additional sensors (temperature sensors) by adding another client
- each software is independent and receives commands via the subsystem
- very easy to write/develop a client

supervisor gets three config-files:

- mainConfig: main variables, e.g. Testboard-Names
- runConfig: names for each module, etc.
- testPrg: which programs should be run (test routine)