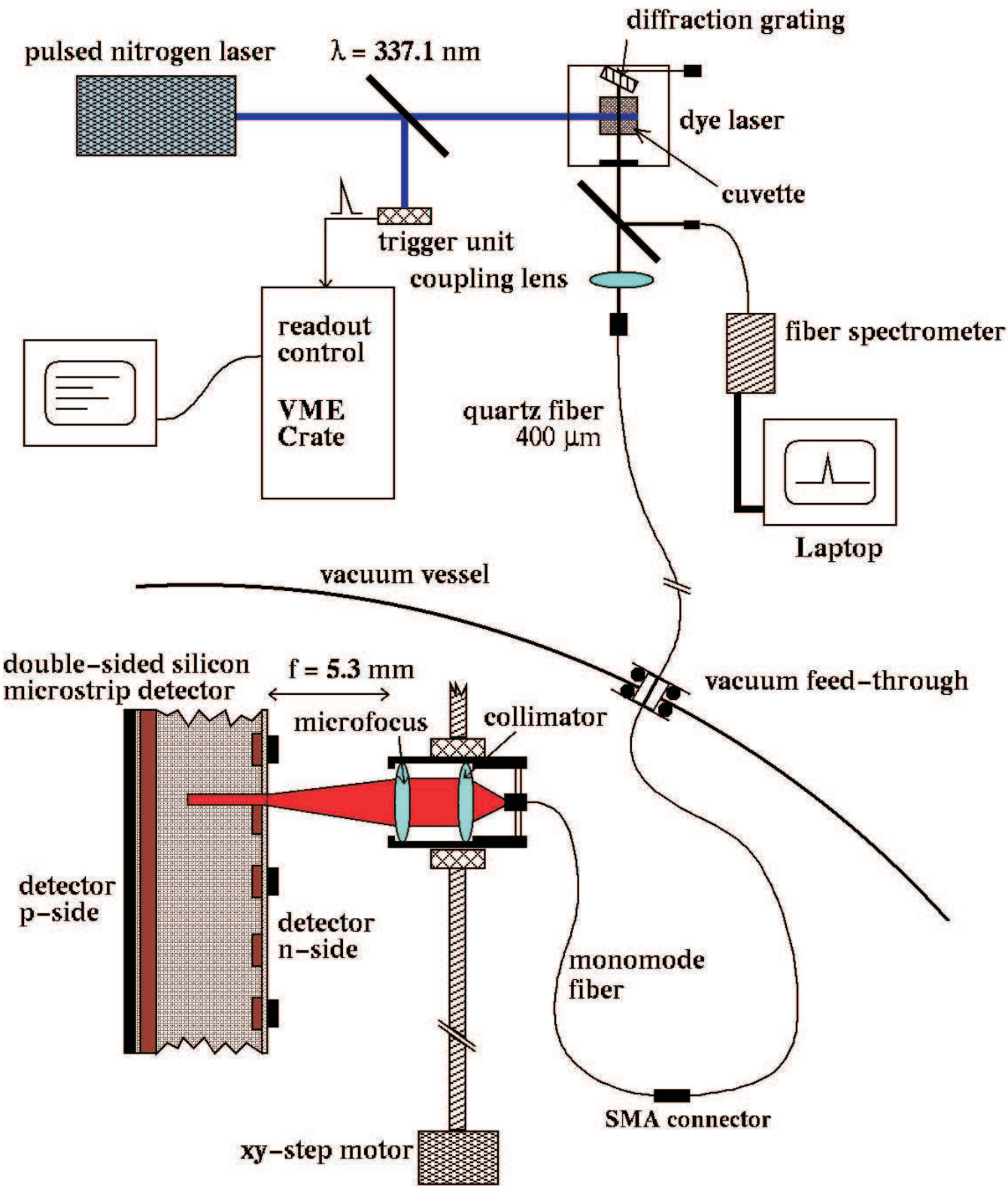
Final Module QC

It is essential to test each and every channel in the system.

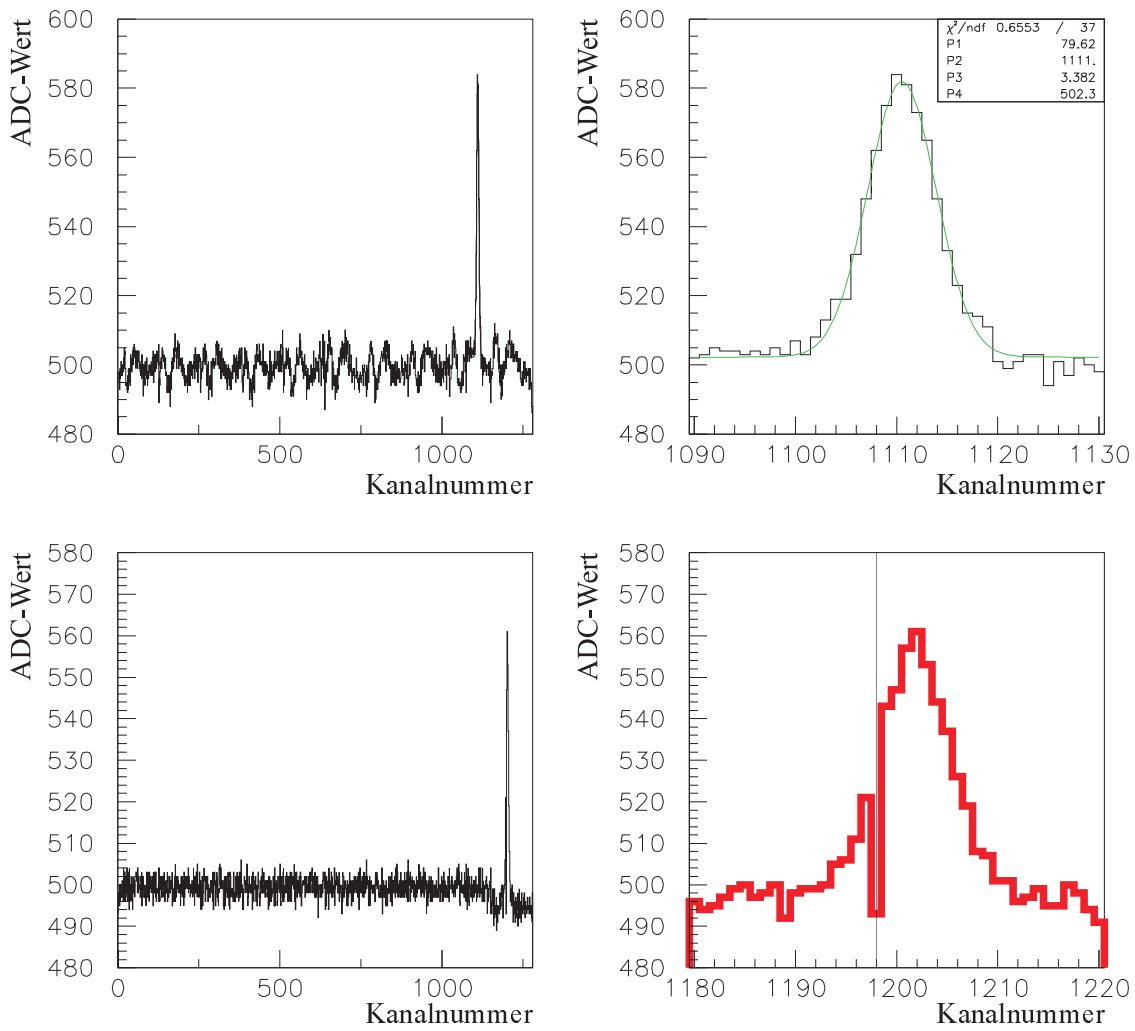
- reconfirm bad Si-strips
- check bond pattern
- check amplification
- check noisy channels
- check dead channels

This information was extremely helpful in commissioning the complete system.

Laser Teststand



Production Control



1280 + 1024 strips /module

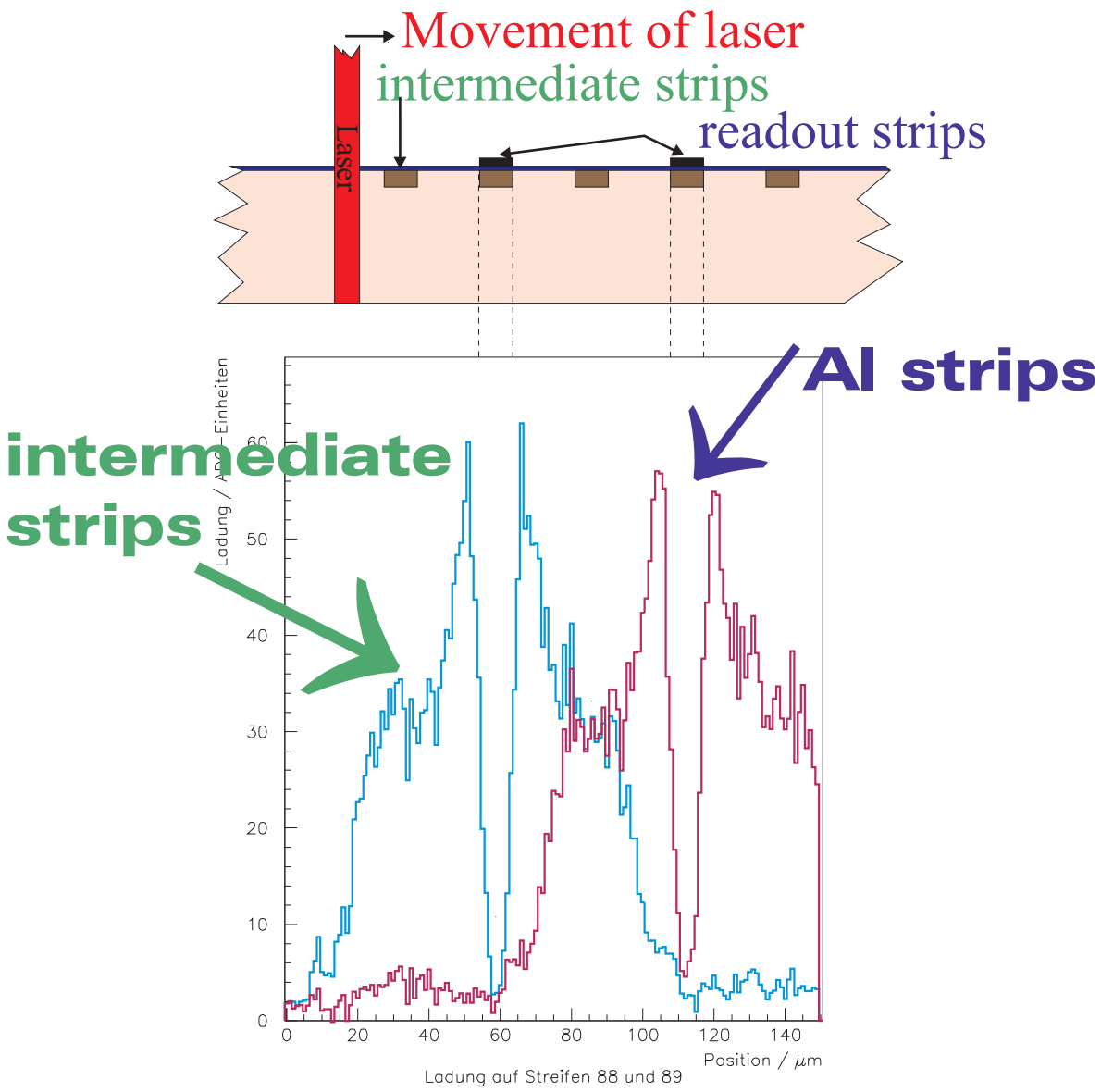
Typically 5 to 10 bad strips/side

Test takes <2hours/module

64 x 2324 = 148736 channels

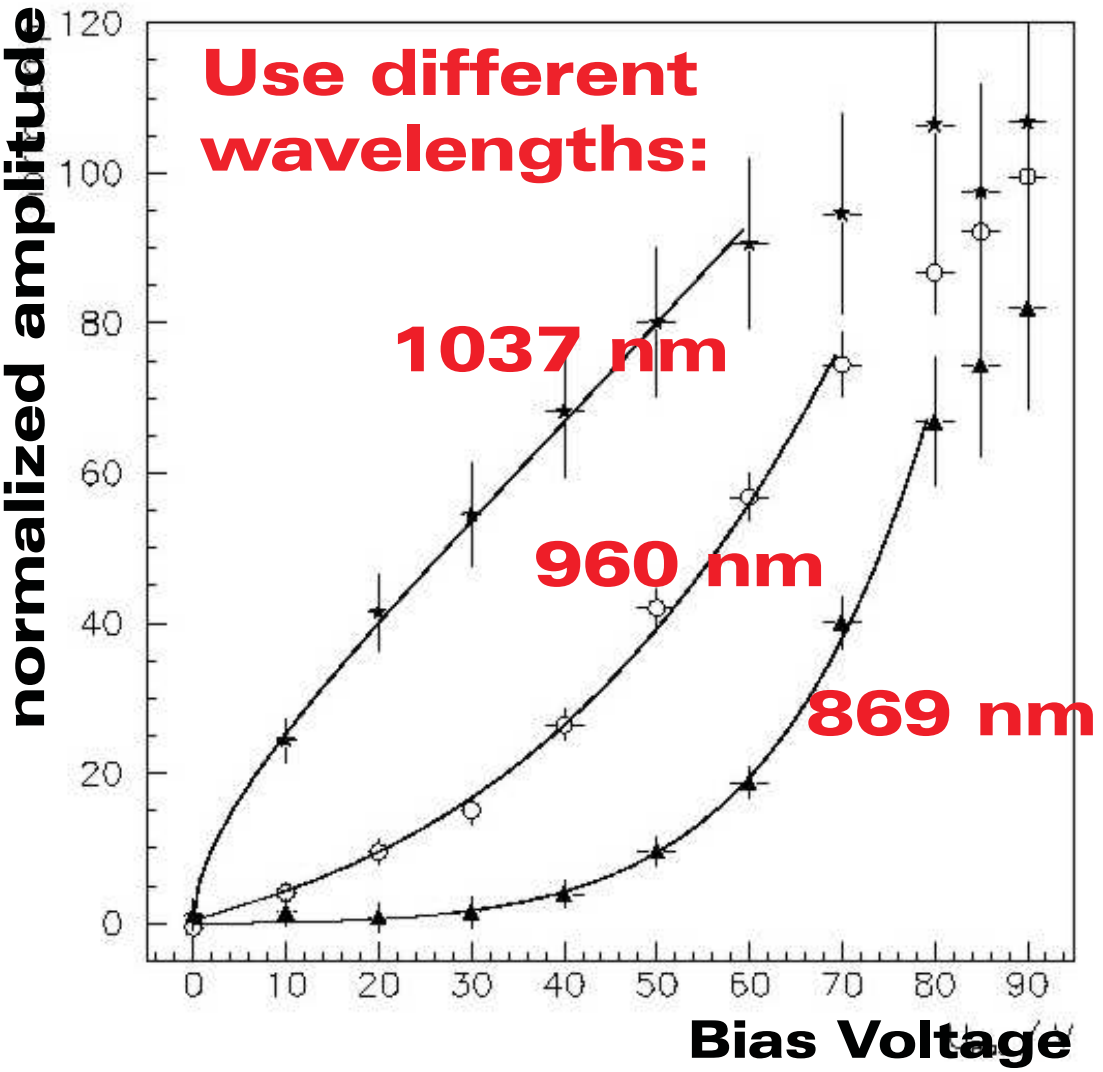
book-keeping is fun !

Eta-Functions



Measure eta-functions with infrared laser and correctly predict the response to minimum ionizing particles.

Probing Depletion Zone



Depletion zone grows from p-side. The laser beam hits the n-side.

For low bias voltages the low wavelength beam does not reach the depletion zone.