

FEROS

Post Commissioning IV

Status and Plans



J.D.Pritchard
La Silla SciOps
ESO, La Silla, Chile

Monday 3:00pm CLST November 25th, 2002
La Silla/Vitacura

Agenda

• 1) Project review [J.D.Pritchard]

- (i) InfraStructure
- (ii) Computing
- (iii) FEROS disassembly, transport, reassembly and alignment
- (iv) Adpater
- (v) Commissioning III
- (vi) Modifications between Commissioning III & IV
- (vii) Commissioning IV

• 2) Issues to be resolved

- (i) Overall efficiency
- (ii) Calibration in the blue

• 3) Plans and possibilities

- (i) New science fibres
- (ii) New calibration fibres
- (iii) FCU modifications:
 - a) new filters?
 - b) New design?
- (iv) High reflectivity M3
- (v) New Fibre Head
- (vi) New Adapter with significant redesign
- (vii) Technical CCD, back to small format?

• 4) Review of project management

InfraStructure

- FEROS Room
- FEROS Climate Controlled Room

Computing

- BIAS PCs
- Archival PC
- TCS
- Observing Environment (OH + OFF)

Moving FEROS

- Disassembly
- Transportation
- Reassembly and Alignment

Adapter

- Design
- Performance

Commissioning III

- Delayed by opto-mechanical issues
- Poor weather
- Maximum efficiency obtained $\sim 6.6\%$

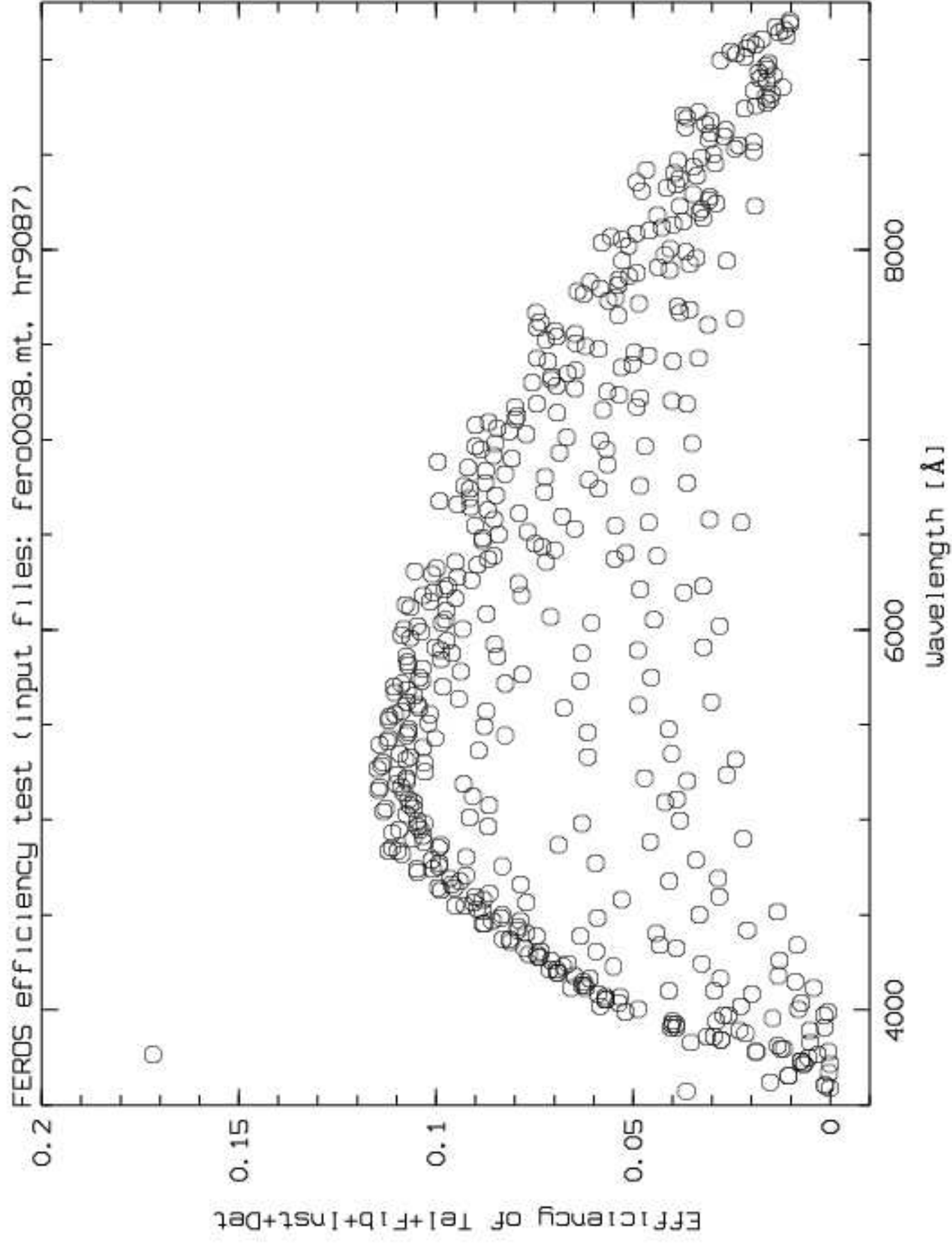
Modifications between Commissioning III & IV

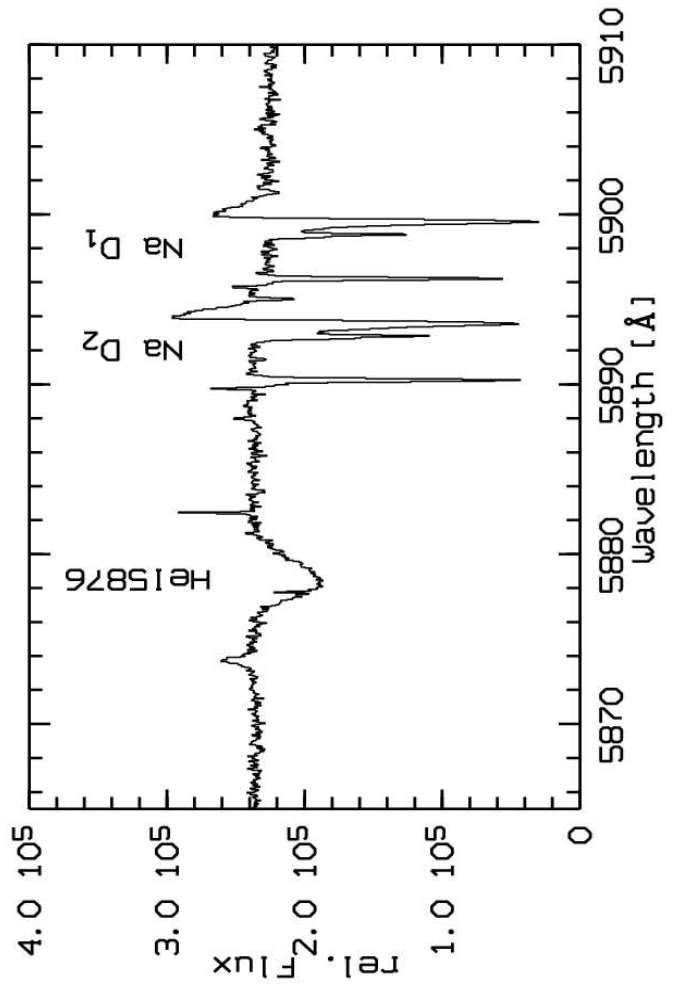
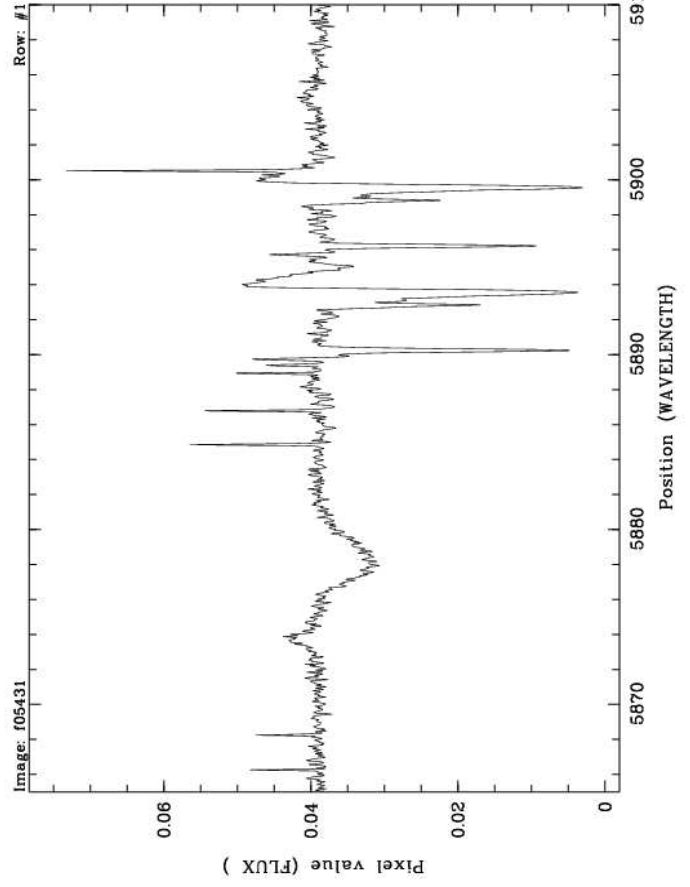
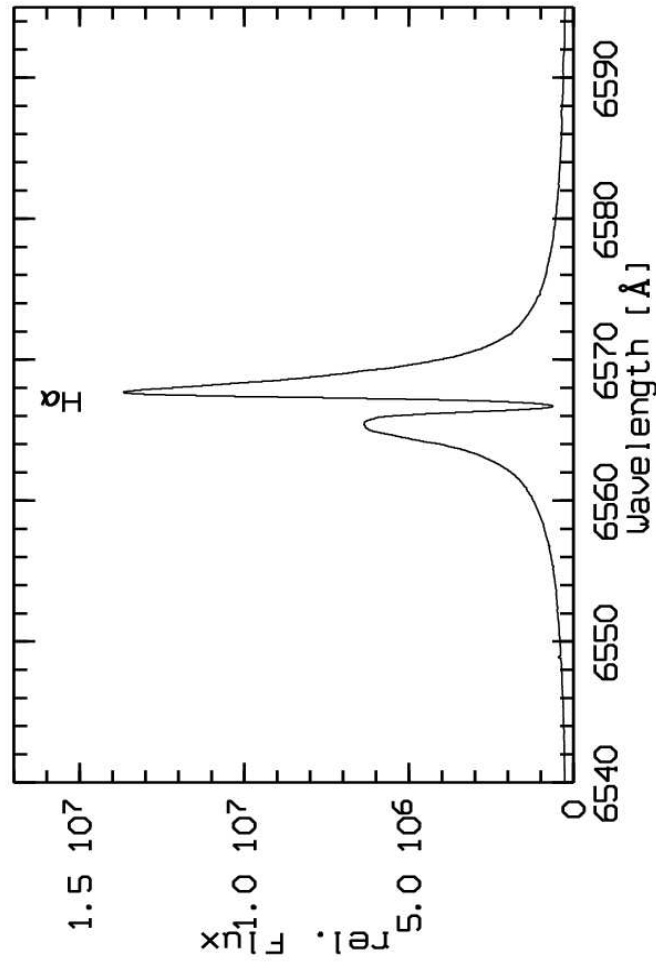
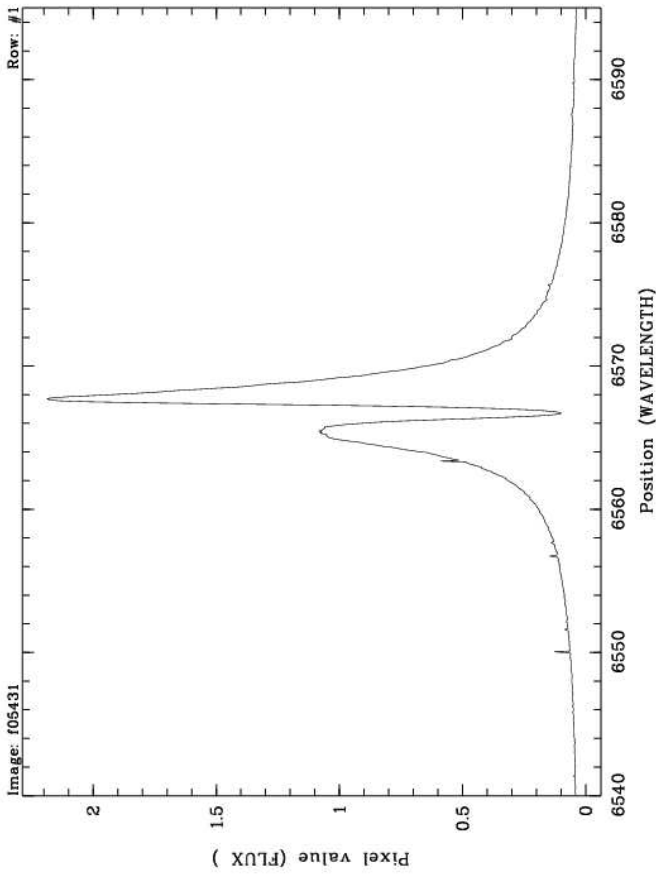
- Adapter
- FibreHead, fibres and ball lenses

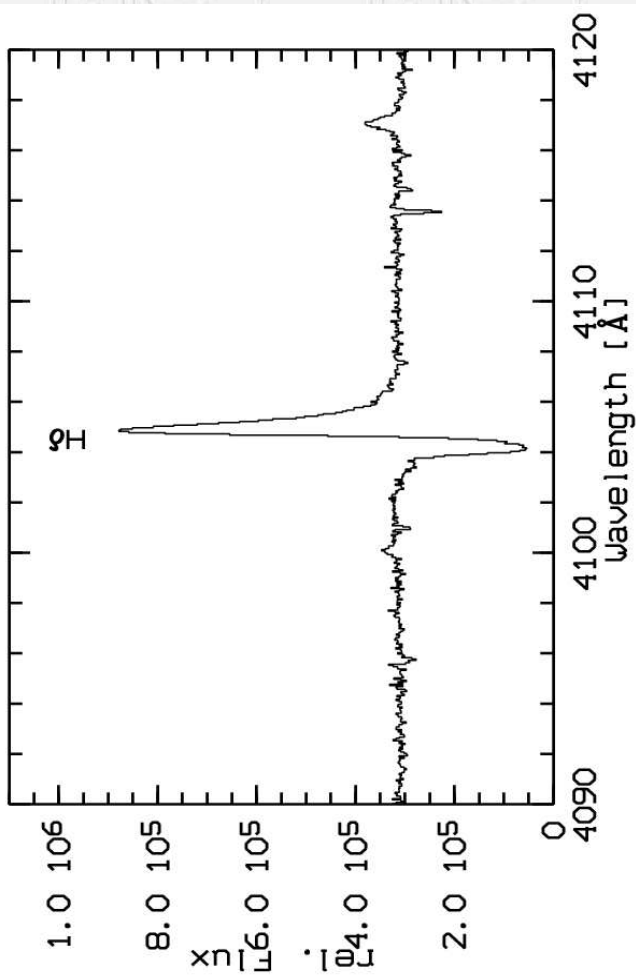
Commissioning IV

- 2 Nights + 10 half nights.
- 11.5% efficiency.

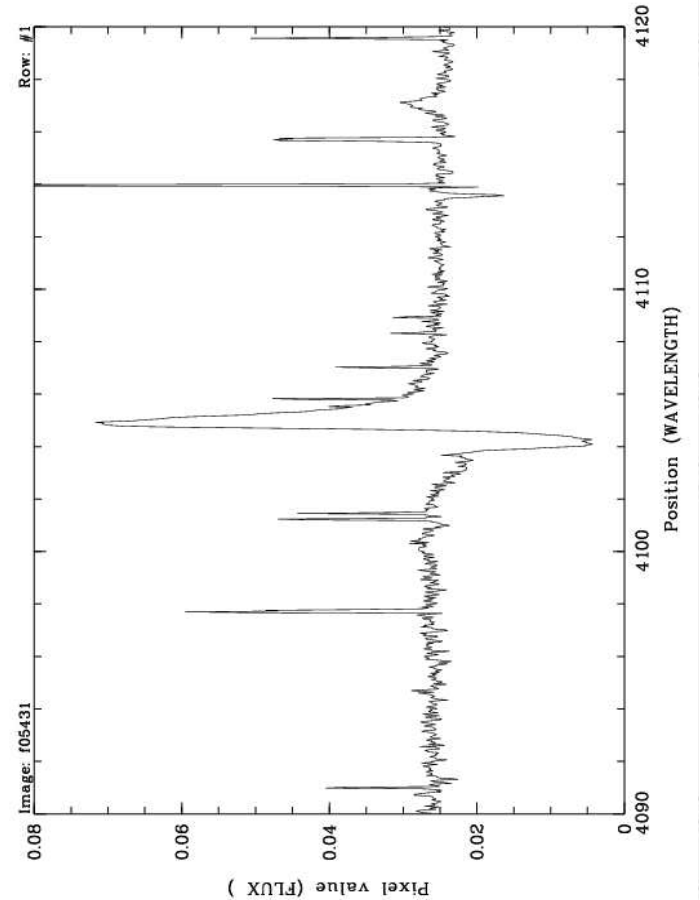
FEROS efficiency test (input files: fero0038.mt, hr9087)



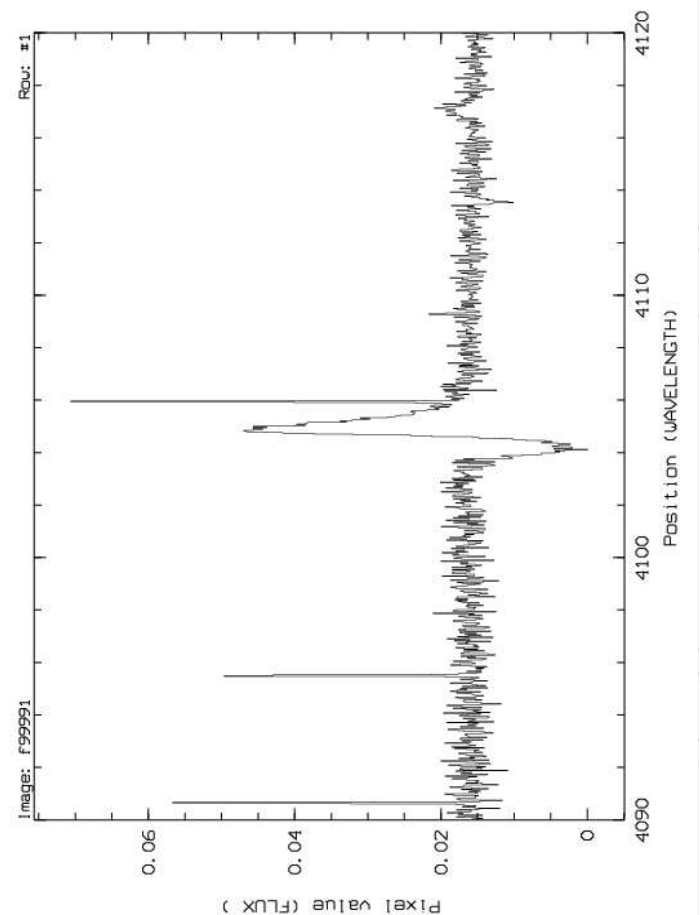




eso-midas version: 01FEB date: Mo, 25 Nov 2002 00:00 User: feros



eso-midas version: 02FEB date: Sa, 26 Oct 2002 08:23 User: Feros



Remaining Issues to be resolved

- Efficiency
 - Refabrication of fibre head
- Calibration Lamps
 - Overall Flux levels
 - Flux in the blue

Plans and Possibilities...

- Plans and possibilities
 - New Fibre Head
 - New Science fibres
 - New Calibration fibres
 - FCU modifications:
 - New filters?
 - New design?
 - High reflectivity M3
 - New Adapter with significant redesign
 - Technical CCD, back to small format?

Project Management Review

- How did I do?