



# La Silla (oli) & Paranal (Hermann)

## Visible Instrumentation

ohainaut



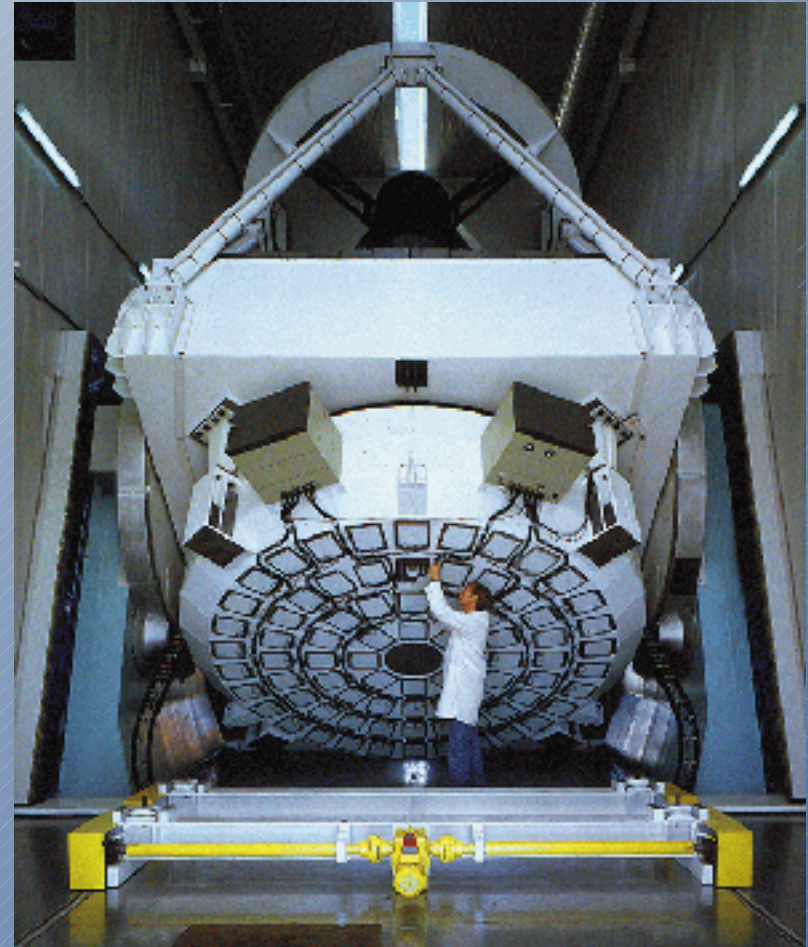
# 3.6m

- !! Only one from
- CES  
vhighRes Spectro
  - HARPS  
highRes Spectro
  - EFOSC2  
Vis spectroImgr
  - TIMMI2  
thermal IR  
spectroImgr



# NTT

- 3.6m diam
- Active Optics,
- Max 15min expos. on moving target
- Simultaneous:
  - EMMI (vis.spectroImg)
  - SuSI2 (highRes Img)
  - SofI (nIR spectroImg)



# 2.2m ESO/MPI



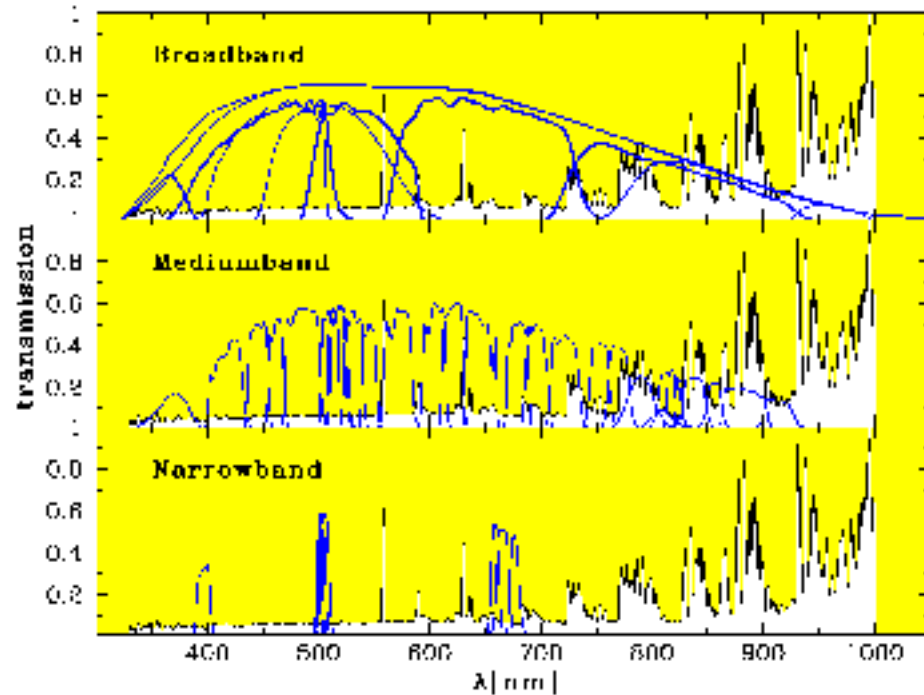
- Simultaneous
  - WFI,  
wide field Imager
  - FEROS,  
highRes Echelle.
- 90% Queue  
monitoring ok



# WFI @ 2.2m

## Imaging

- FoV = 33x33' (8x2 chips)
- Many filters (not cometary)
- 90% queue monitoring OK





# SuSI2 @ NTT

- Imaging!
  - 2x1 chips
  - 5.5' FoV
  - ~15 filters
  - Very clean
- With EMMI (vis.Spectro)  
and SofI (nIR)

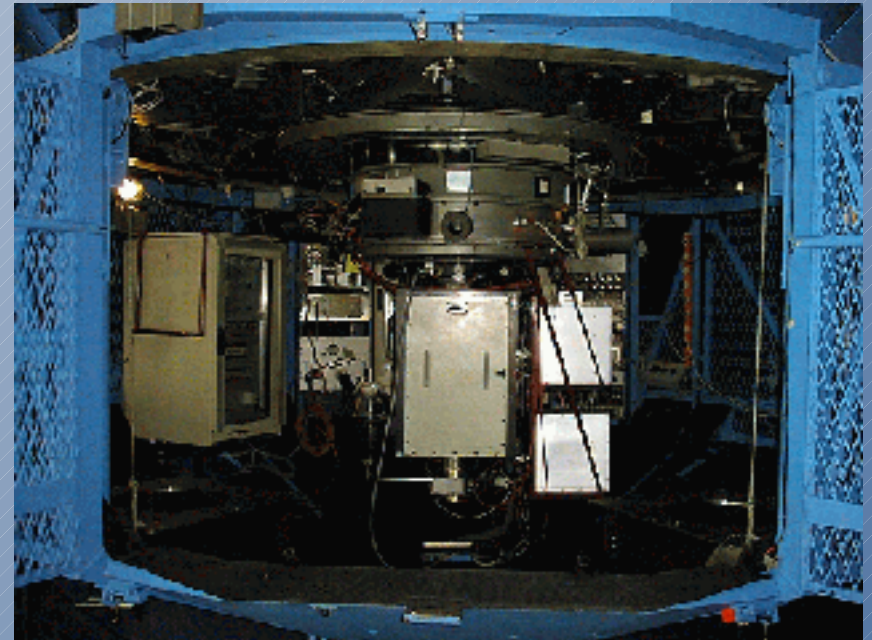


# EMMI @ NTT

- **Imaging:**
  - Blue=6' (1chip), Red=9.5' (2x1 chip)
  - Many filters, incl. cometary
- **Grism/LowRes:**
  - Red only (>450nm)
  - Res=280-1670
  - Mult.Obj.Spectro possible
- **Med Res.**
  - Blue / Red
  - Res=600-10k
  - Long slit
- **High Res: Echelle**
  - Red (>450nm)
  - Res=10-100k
  - Long slit possible
- With SuSI (Img) and SofI (nIR)

# EFOSC2 @ 3.6m

- Imaging
  - 5.2' FoV (1chip)
  - Many filters, incl. cometary
  - coronagraphy
  - Polarimetry
- Spectro: grisms
  - Res= 100-1000
  - MOS
  - Polarimetry



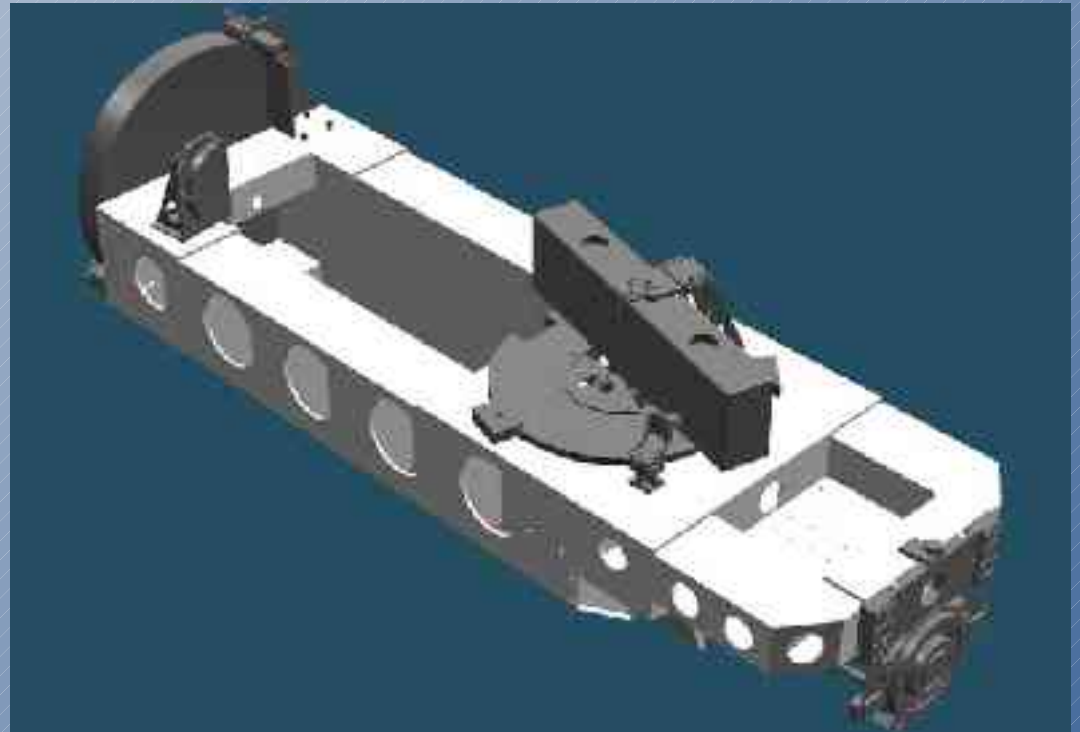


# FEROS @ 2.2m

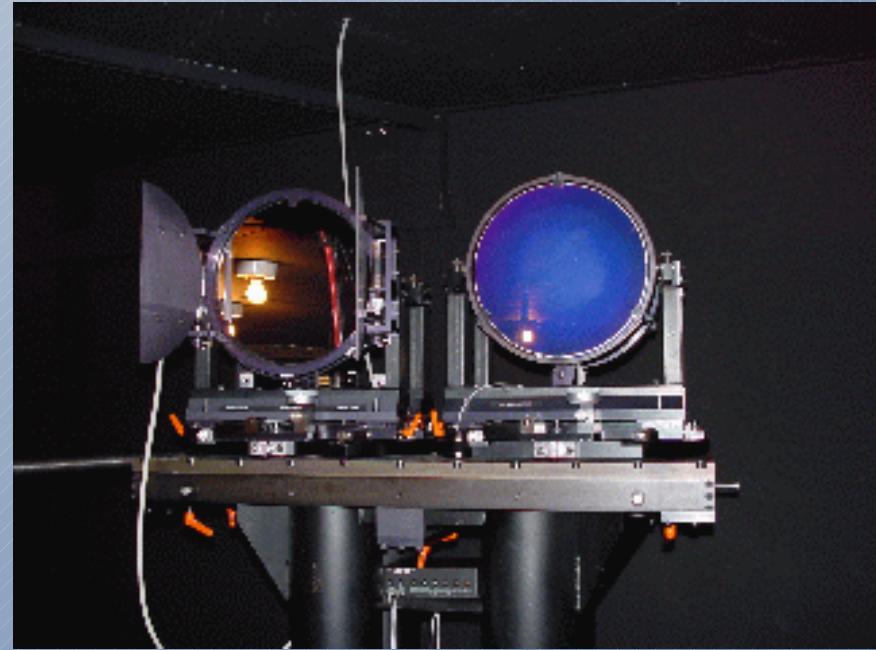
- Fiber + Echelle spectro
- 350-920nm
- Res=48k
- High efficiency (like HARPS @ 3.6m)
- With WFI

# HARPS

- Fiber + Echelle spectro
- Super stable (1m/s)
- 380-690nm
- Res=120k



# CES



- Super-high res
- Fiber
- Res= 80k-150k-220k
- 350-1030nm
- 1 order only (2.5-6.5nm at a time)



# Imaging

Instrument	Telescope	Pixel / FoV	Remarks
<b>SuSI-2</b>	NTT	0.08''      5.5'	Clean PSF, good UV, few filters
<b>EFOSC-2</b>	3.6m	0.16''      5.2'	Coronagraphy, Polarimetry
<b>FORS-1</b>	UT1	0.10/0.20    3.4/6.8'	Polarimetry
<b>FORS-2</b>	UT4	0.12/0.24    3.4/6.8'	Mosaic 2x1
<b>EMMI</b>	NTT	Red: 0.16''      9.5' Blue: 0.37''      6.2'	Mosaic 2x1, many filters
<b>VIMOS</b>	UT3	0.20''      4x 7x8'	4 arms, 1' gap
<b>WFI</b>	2.2m	0.24      33'	4x2 mosaic, many filters



<http://www.sc.eso.org/~ohainaut/tmp/DeepImpact>



# Spectro: Long Slit and Integral

<b>Instrumt</b>	<b>Telscp</b>	<b>Resolution</b>	<b>Range</b>	<b>Remarks</b>
<b>EFOSC-2</b>	3.6m	100-1000	320-1100nm, 5'	SpectroPolrm MOS
<b>EMMI</b>	NTT	280-1670 800-9k 600-10k	400-1000, 6' 340-500, 5' 400-1000, 5'	MOS
<b>FORS-1</b>	UT1	260-1700	350-950, 5'	SpectroPolrm.
<b>FORS-2</b>	UT4	260-2600		MOS
<b>VIMOS</b>	UT3	200/1000/2500	360-1000, 4x7' IFU: 13''..54''	Large IFU
<b>FLAMES/ Giraffe</b>	UT2	11k/33k	IFU: 15*2x3'' ARGUS: 12x7'', 6x4''	



# Spectro: HighRes

<b>Instrumt</b>	<b>Telscp</b>	<b>Resolution</b>	<b>Range</b>	<b>Remark</b>
<b>FEROS</b>	2.2m	48k	370-860nm	Fiber. Echelle, 40 orders
<b>EMMI/Ech</b>	NTT	7700-100k	400-900	Echelle, long slit possible
<b>HARPS</b>	3.6m	120k	378-691nm	Fiber. Super stable for rad.vel.
<b>UVES</b>	UT2	40k	300-1100nm	
<b>CES</b>	3.6m	80k-150k- 220k	2.5-6.5nm in 340-1030nm	Fiber. 1 order