5.4 ESO-Garching Team (ESO)

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Staff	Name	Degree	Status	%	Work Package
1.	Nicolas Devillard	Dipl.Eng.	Data-Pipeline	5	2.1, 2.2
2.	Markus Kissler-Patig	PhD	Instrument Scientist	20	1.3, 2.1, 3.7, 3.11
3.	Guy Monnet	PhD	Head of Instrumentation	5	1.3
4.	Alan Moorwood	PhD	IR-instrument	5	1.6
5.	Almudena Prieto	PhD	support astronomer	10	1.4, 2.3
6.	Luca Pasquini	PhD	instrument scientist	5	1.2
7.	Jeremy Walsh	PhD	instrument scientist	20	1.1, 1.2, 2.4, 3.7, 3.11

Local team description:
The European Southern Observatory is responsible for the instrumentation attached to the Very Large Telescope, the world's leading facility in optical and near-infrared astronomy. ESO also standardizes both the interfaces to the instruments as well as the data format for the European astronomical community.

The ESO team includes the heads of ESO's instrumentation division and near-infrared instrumentation group, as well as the principal investigators / instrument scientists of a significant fraction of all 3D instruments foreseen for 10m class telescopes in the world (FLAMES (VLT), NIRMOS (VLT), SINFONI (VLT), ATLANTIS (GRANTECAN)). Thus, the team has a broad expertise in many different 3D spectrographs, their data formats and reduction software. Note also that G.Monnet lead the development of the world's first optical integral field spectrograph (TIGER). Therefore, the team strength certainly lies in the instrumentation area. However, ESO is also expert in coordinating and promoting standards as foreseen by the network and coordinating requirements for software (through its Data Management division). The ESO team will serve as bridge-head for promoting and distributing the network products. The ESO team also has access to ESO's infrastructure and experience in organizing several international meetings and workshops per year.

Beside a software engineer (the main developer of the eclipse software package for NIR photometry, adopted by many users and observatories world wide), the team members are all instrument developers as well as scientists covering a wide range of scientific interests from stellar astronomy to the distant universe. The team is thus well prepared in helping to train young researchers of other teams in all the proposed scientific areas.

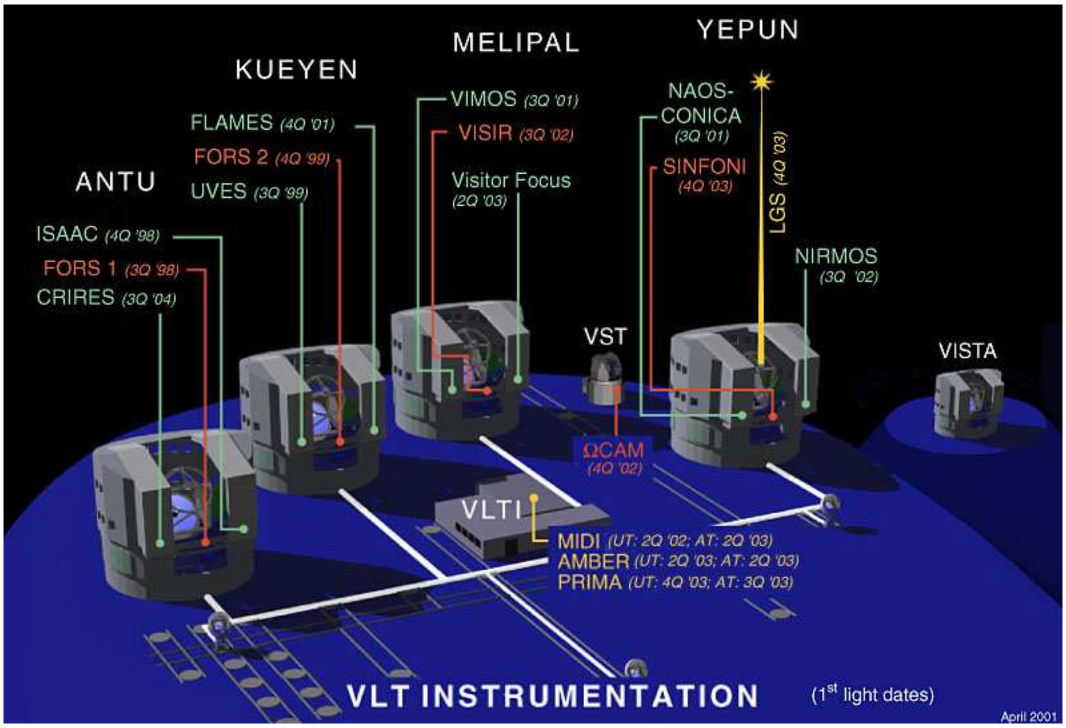
ESO already has collaborations with all institutes contributing VLT instruments (MIL,MPE,PAR,LEI,MAR), as well as the institutes in the SAURON collaboration (LYO,LEI,DUR), and with the IAC team of the ATLANTIS instrument.

Significant recent publications:
The team has published a number of technological and scientific papers and reviews. Among the most significant:

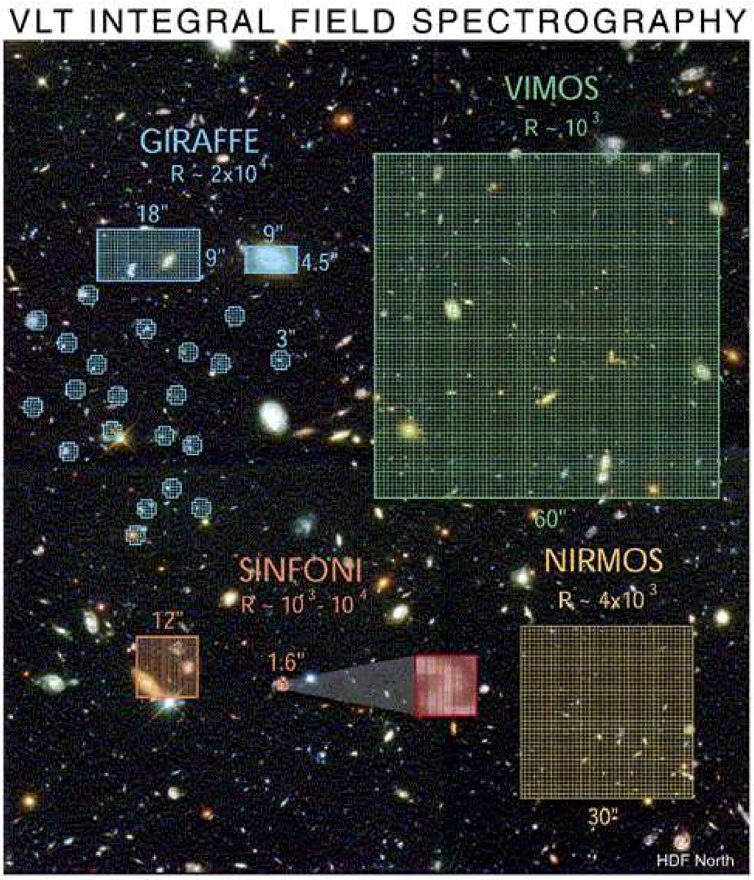
A.Moorwood, editor of "*Optical and IR telescope instrumentation and detectors*", SPIE's Astronomy 2000 conference "Astronomical Telescopes and Instrumentation 2000",Bellingham, WA: SPIE, 2000

J.Walsh, editor of "*Chemical evolution from zero to high redshift*", ESO workshop, Berlin, New York: Springer, 1999

Duval M.F. & Monnet G.,1985, Astron. & Astrophys. Suppl. Ser. 61, 141 First galaxy dynamics paper based on 3D spectrograph results.



The ESO Very Large Telescope with its full instrument suite. With the exception of ANTU, all other 8m telescopes host at least one 3D instrument.



The Integral Field Units that will be commissioned by ESO on the VLT in the period 2001—2003. The IFUs of each instrument are superimposed on an image of the Hubble Deep Field North. Field size and resolution are indicated for each instrument.