

#### Status of activities

 The Scanning station is now basically ready and the microscope has been installed.

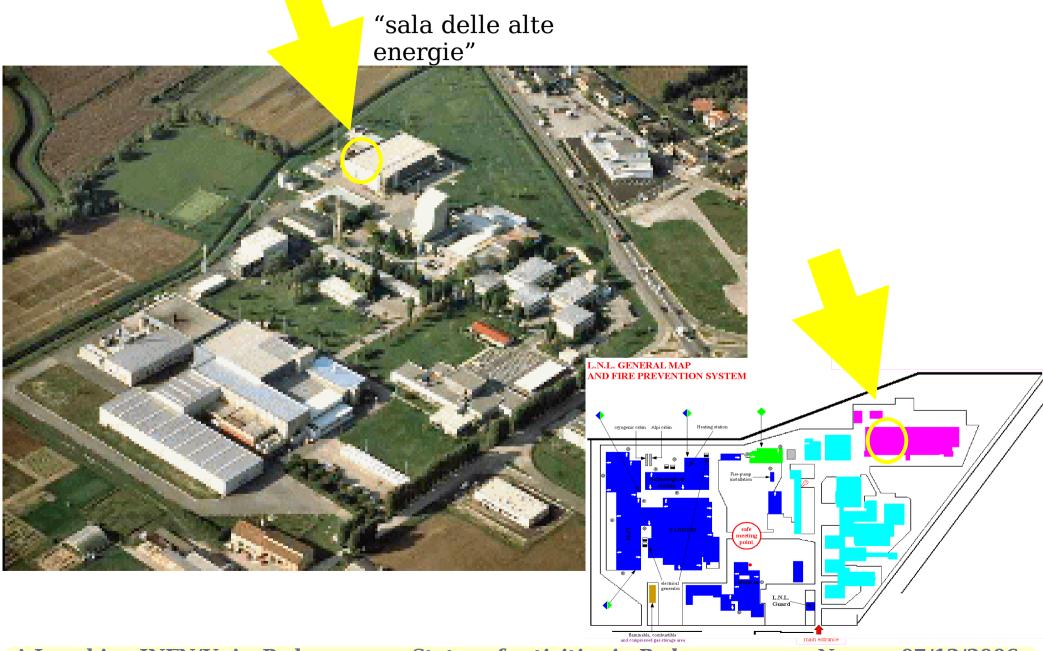
• The site is the LNL (Legnaro National Laboratories, just outside of Padova) inside the "Sala delle Alte Energie" building.

## Location of the scanning station

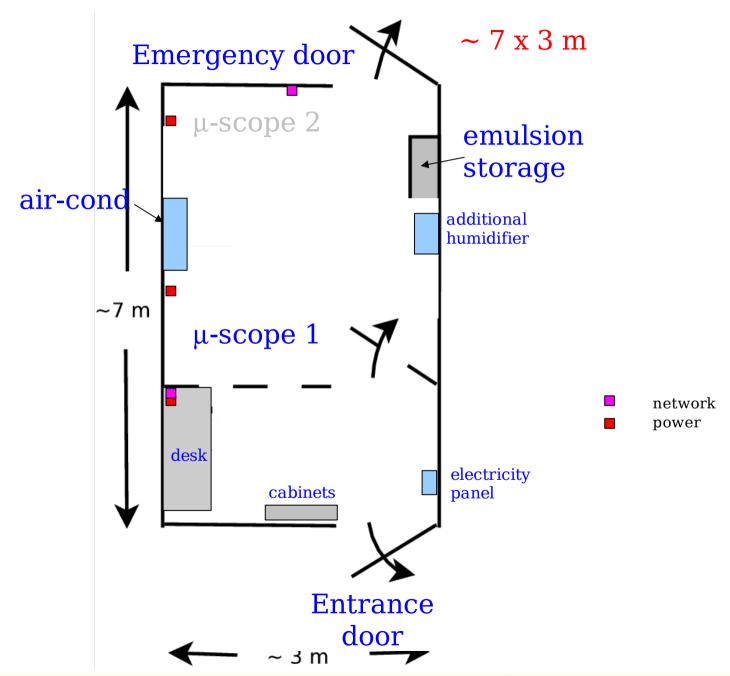


8 Km from Ph. Dep.

#### The scanning station @ LNL



#### Schematic view of the Lab



# The situation in spring

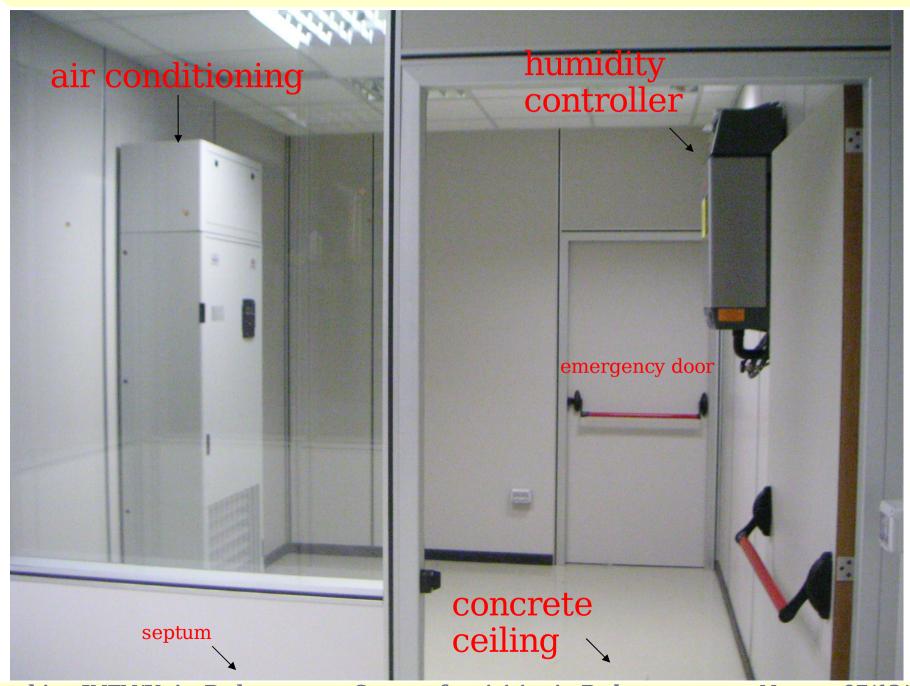


#### The Lab now

The same company built both the box and the conditioning system (Emerson, Liebert HIROSS)



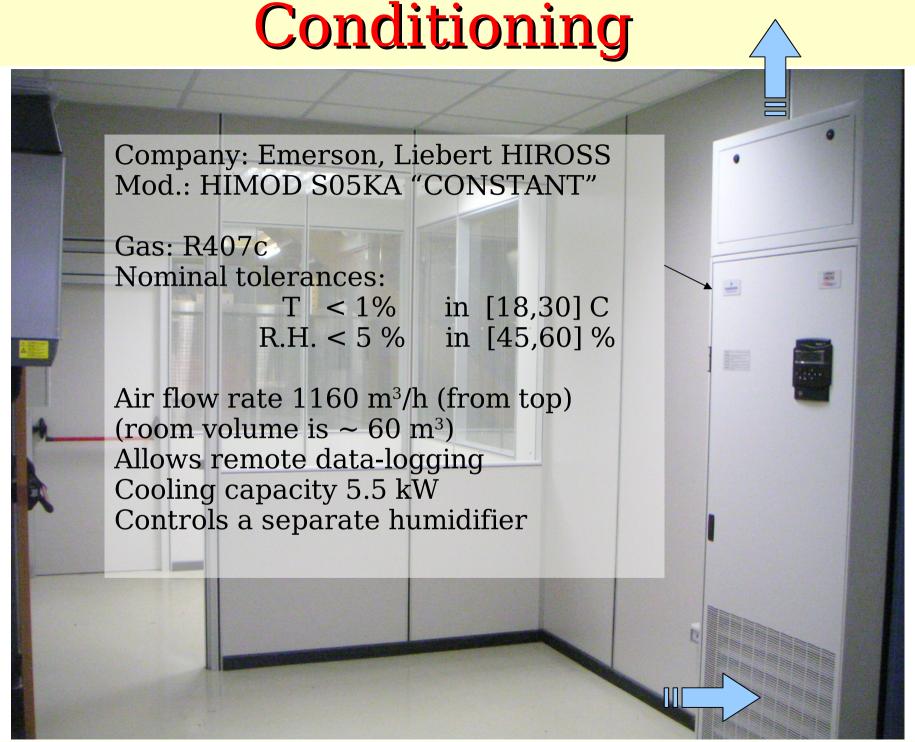
#### Interior



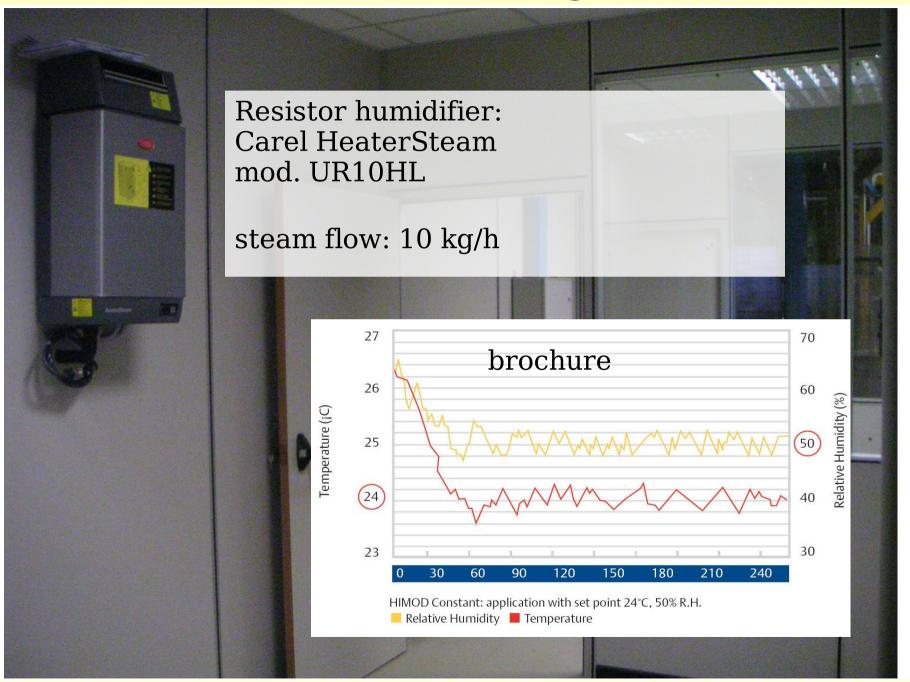
A.Longhin INFN/Univ. Padova

Status of activities in Padova

Nagoya 07/12/2006



### **Conditioning II**



#### **Conditioning III**



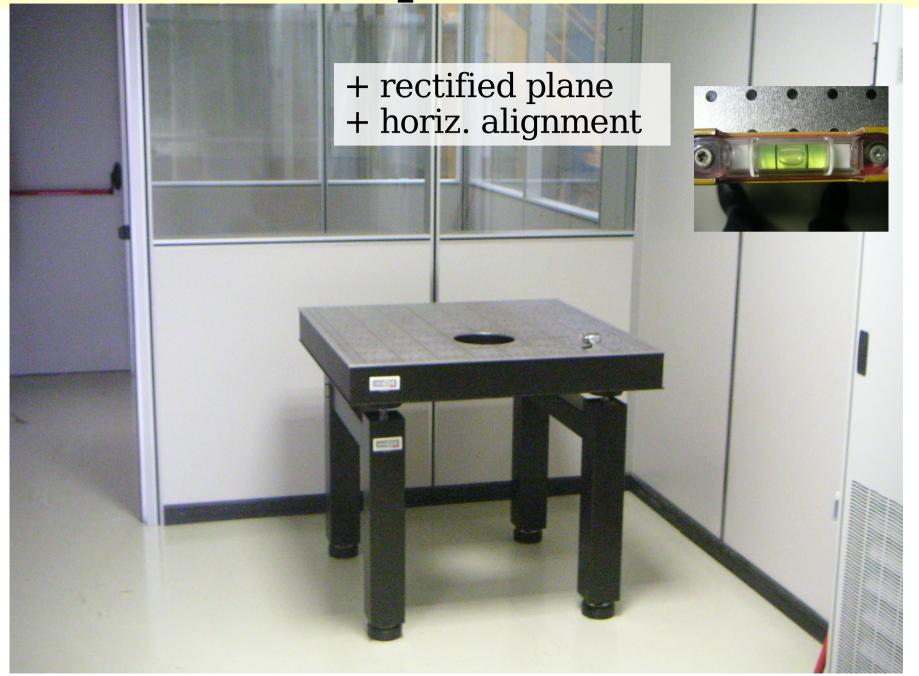
- Conditioning system is operational since some days
- Long term monitoring/tests to be completed

#### The Microscope installation (I)

- + table legs
- + horiz. alignment



#### The Microscope installation (II)



### The Microscope installation (III)

- + granitic arm
- + condenser base

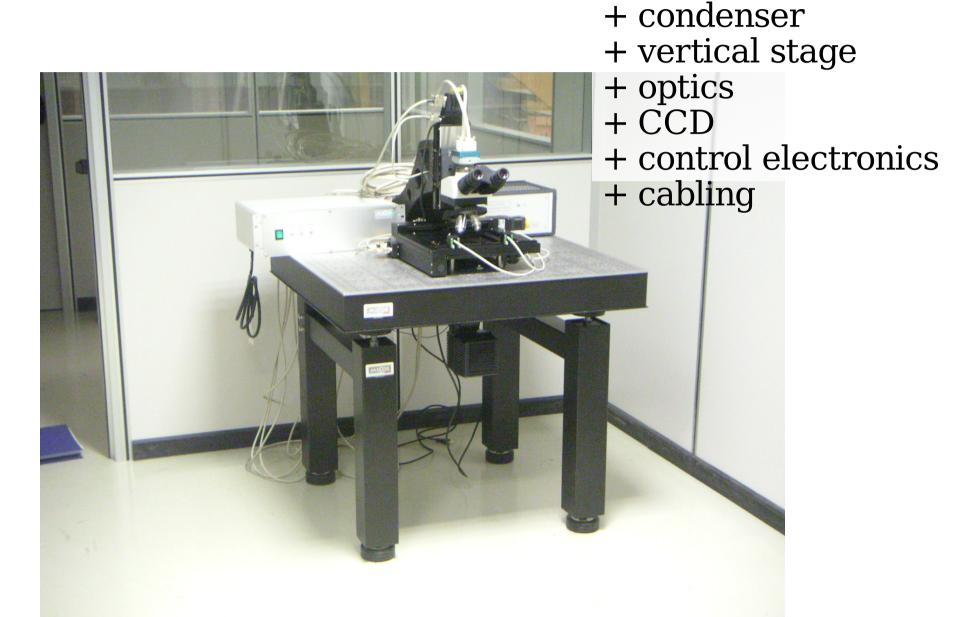


### The Microscope installation (IV)

+ horizontal motorized stage



### The Microscope installation (V)

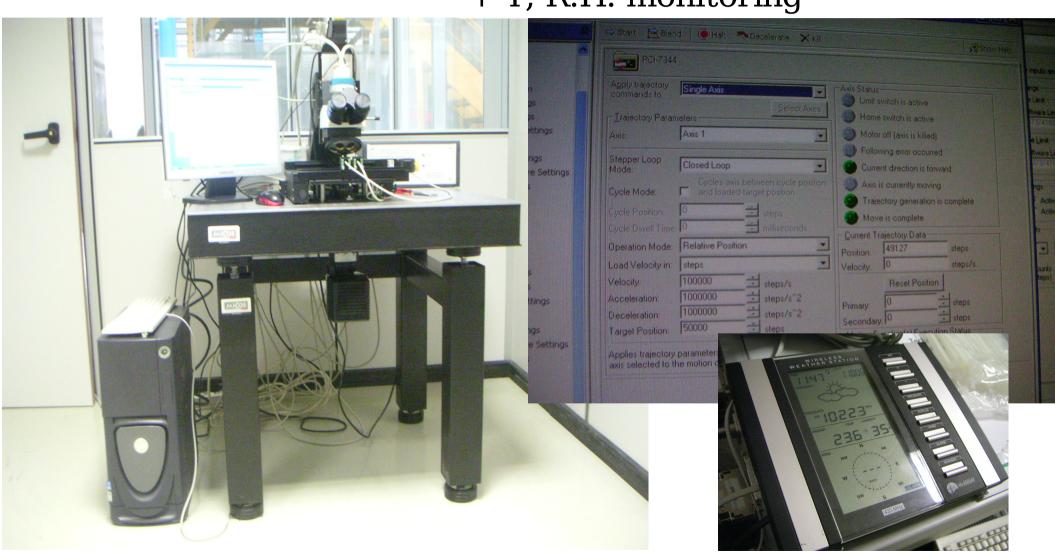


## The Microscope installation (VI)



### The Microscope installation (VII)

- + scanning PC with software
- + check of motors movements (OK)
- + T, R.H. monitoring

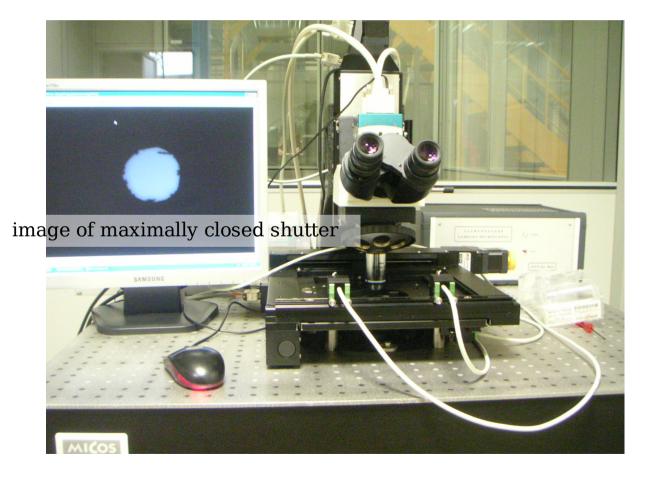


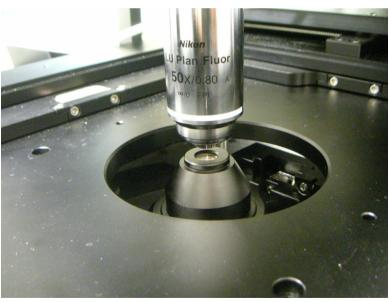
+ check of CCD and optics (proof of principle, it works)

snapshot of a glass surface with some dirt on it

### The Microscope installation (VII)

+ microcope-condenser basic optical alignment





#### Computing infrastructure

• 1 is up and working (DELL PowerEdge, WinXP with all the necessary sw installed) File server BatchManager Data processing server • 2 and 3: Oracle serve DELL PowerEdge 2900 CPU: 2 x Xeon DC5130 Storage: 4 x 500 GB SATA RAM: 4 GB Private network hub tower RAID controller External network gateway Win2003 Server (10 CAL) ScanServer: have been delivered. PC + microscope

 public IP for central database access has been allocated and communicated

#### Conclusions and plans

- The microscope station is basically complete except for
  - the emulsion glass plane (being delivered)
  - the vacuum system (working on it)
  - the delivery/set-up of the complete computing infrastructure
  - few minor things (furniture, UPS, eth cable)
- Next steps:
  - fine alignment and optics commissioning. NIKON technician coming before Xmas.
  - Final setup/tests of the air conditioning system (just some short trials up to now)
  - get some test emulsion and expertise with SySal and data taking/processing

Thanks for the training & suggestions offered up to now by other scanning groups

More pictures/infos at <a href="http://opera.pd.infn.it/scanning/ScanningPD.html">http://opera.pd.infn.it/scanning/ScanningPD.html</a> (especially see the "NEWS" links)

#### **Outlook**

• Updated information is available at this URL:

http://www.pd.infn.it/~longhin/tmp/Scan ningPD.html

# **Spares**

#### **Air Delivery: Displacement**

Model		<b>S0</b> 5	5
Performances <sup>(1)</sup>			
Total cooling capacity	kW	5,5	5
Sensible cooling capacity	kW	4,8	}
SHR sensible heat ratio		0,8	7
EER energy efficiency rating		3,2	1
Number of compressors	n°	1	
Number of fans	n°	1	
Airflowrate	m³/h	116	0
External Static Pressure ESP	Pa	0	
Sound Pressure Level <sup>(3)</sup> downflow	dB(A)	48,	3
Width	mm	750	)
Depth	mm	400	)
Net Weight	kg	170	<u> </u>

S models and M25 are also available in "Constant Version" with Upflow Delivery