

# FIRST OPERATION WITH SPARC CONTROL SYSTEM

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**S**ource

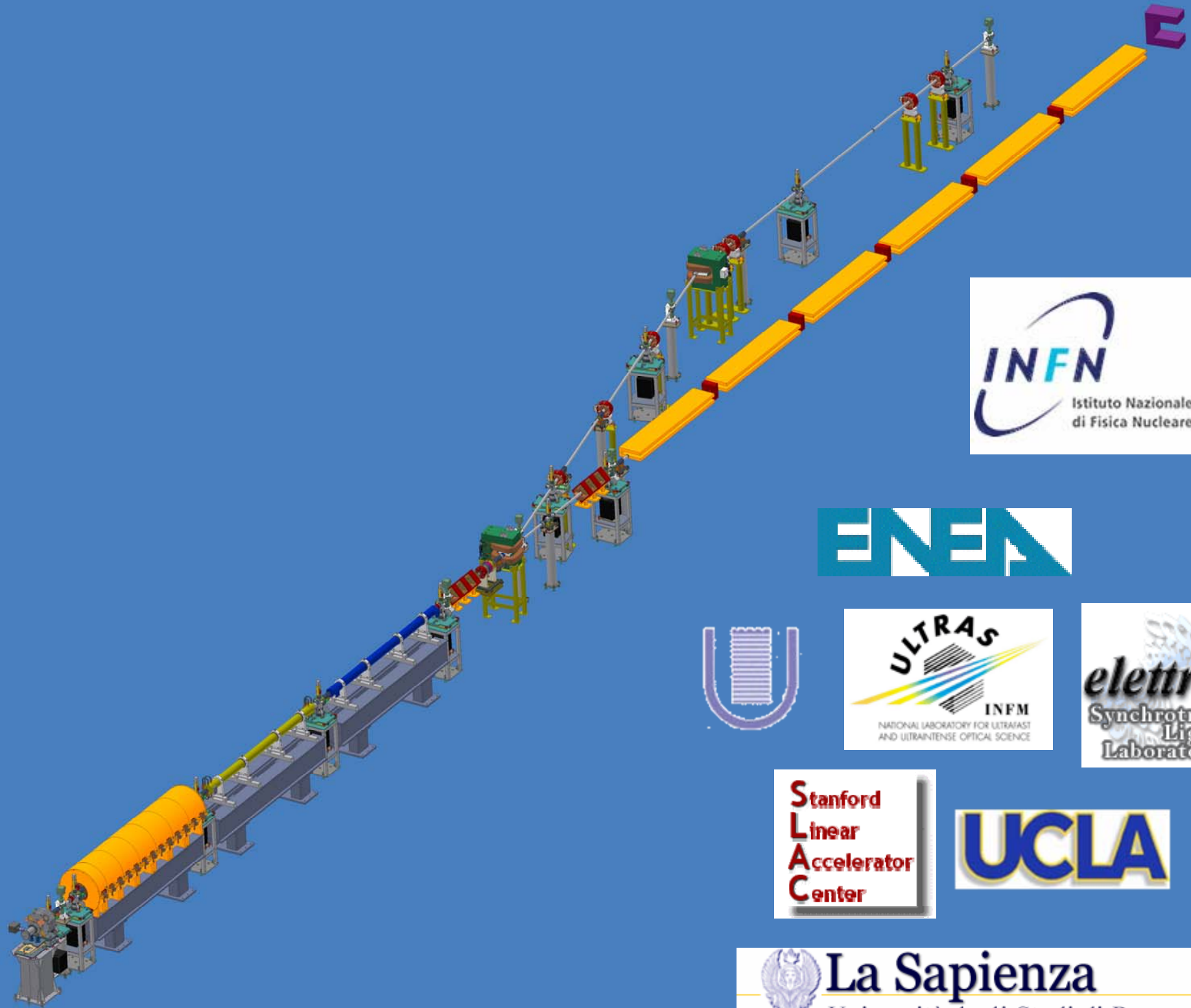
**P**ulsed

**Self** **A**mplified

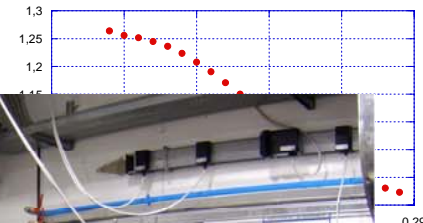
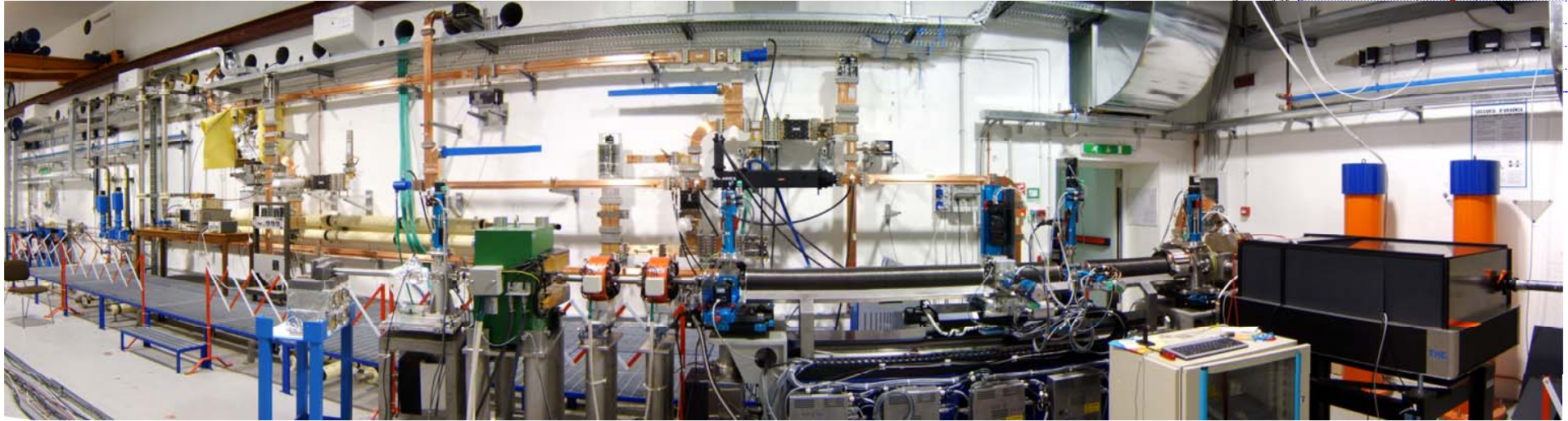
**R**adiation

**C**oherent

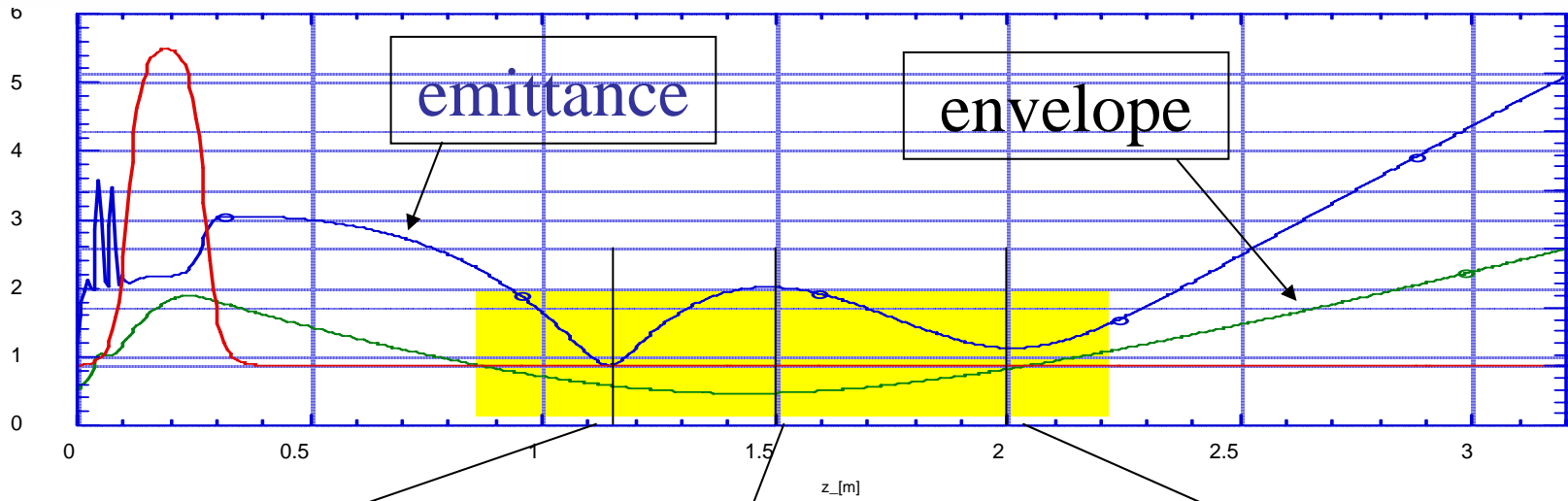
**Self-Amplified Pulsed Coherent Radiation Source**



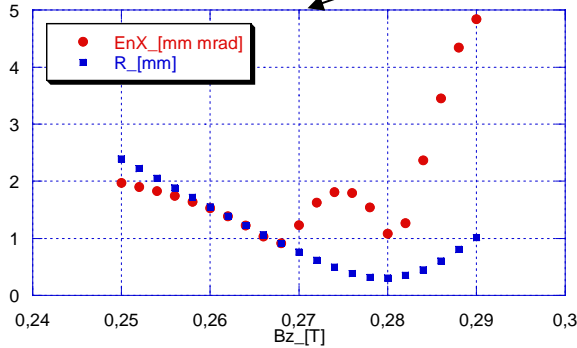
# Movable Emittance-Meter



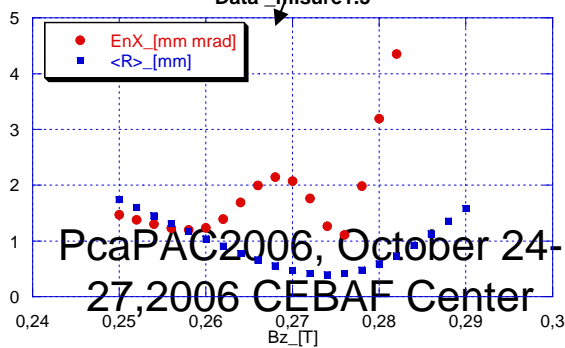
sigma\_x\_[mm]



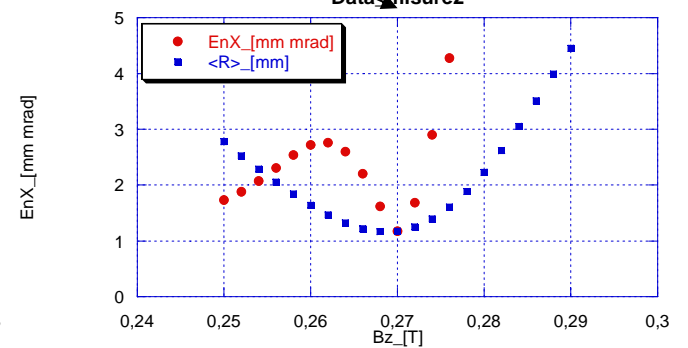
DataMisure1.2QDA



Data\_misure1.5



Data\_misure2

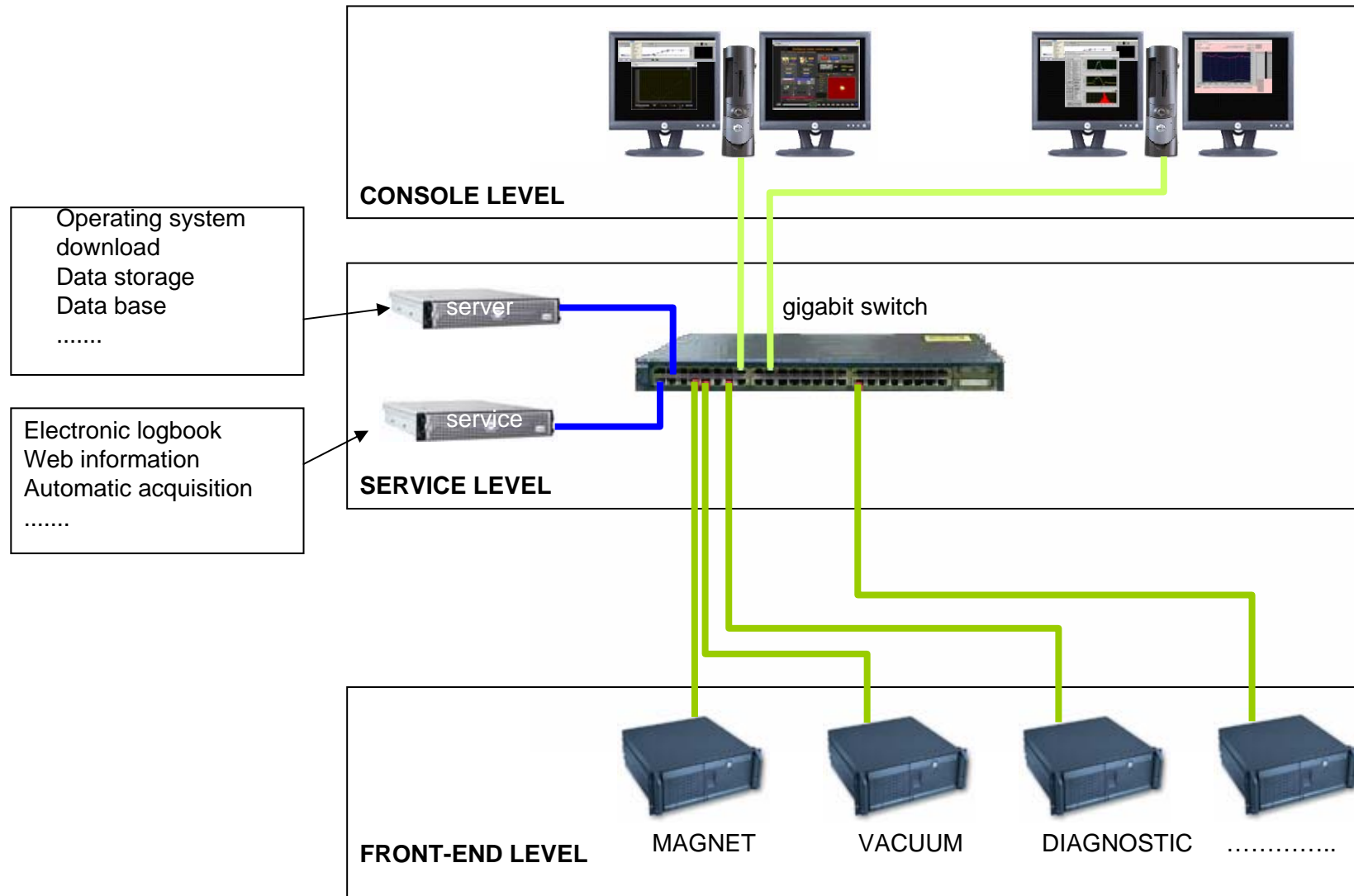


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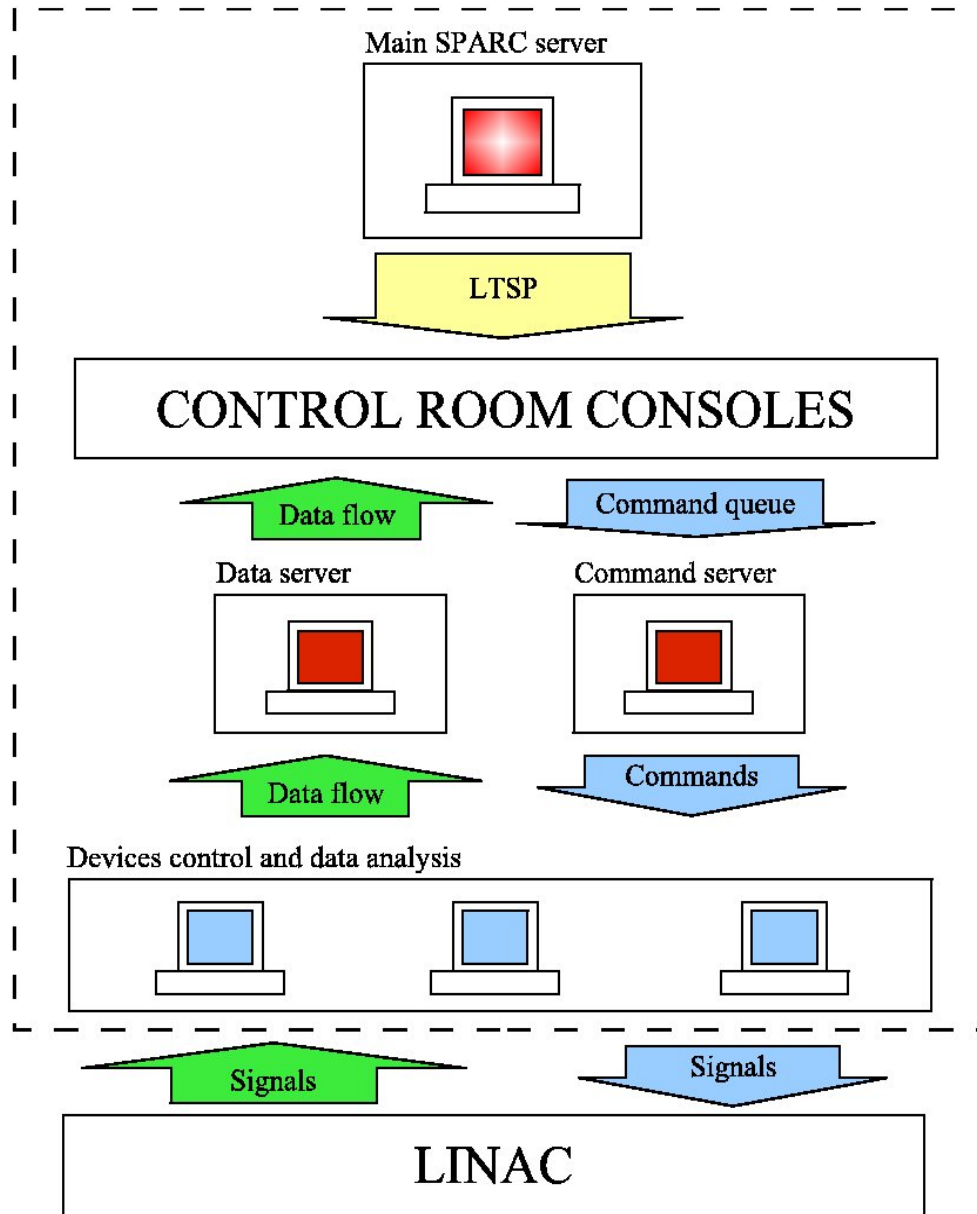
## ELEMENTS TO CONTROL

<b>Device</b>	<b>e-meter</b>	<b>SPARC</b>	<b>Interface</b>
Magnet Power Supply	9	30	serial
Vacuum pump	15	23	Fieldpoint
Vacuummeter	2	6	serial
Modulator	2	2	Ethernet
RF	2	2	Ethernet, Digitizer, ...
Camera	5	12	IEEE1394
Flag	5	12	Serial, CAN
Beam Current Monitor	1	2	Multimeter
Beam Position Monitor	0	12	Ethernet

# CONTROL SYSTEM

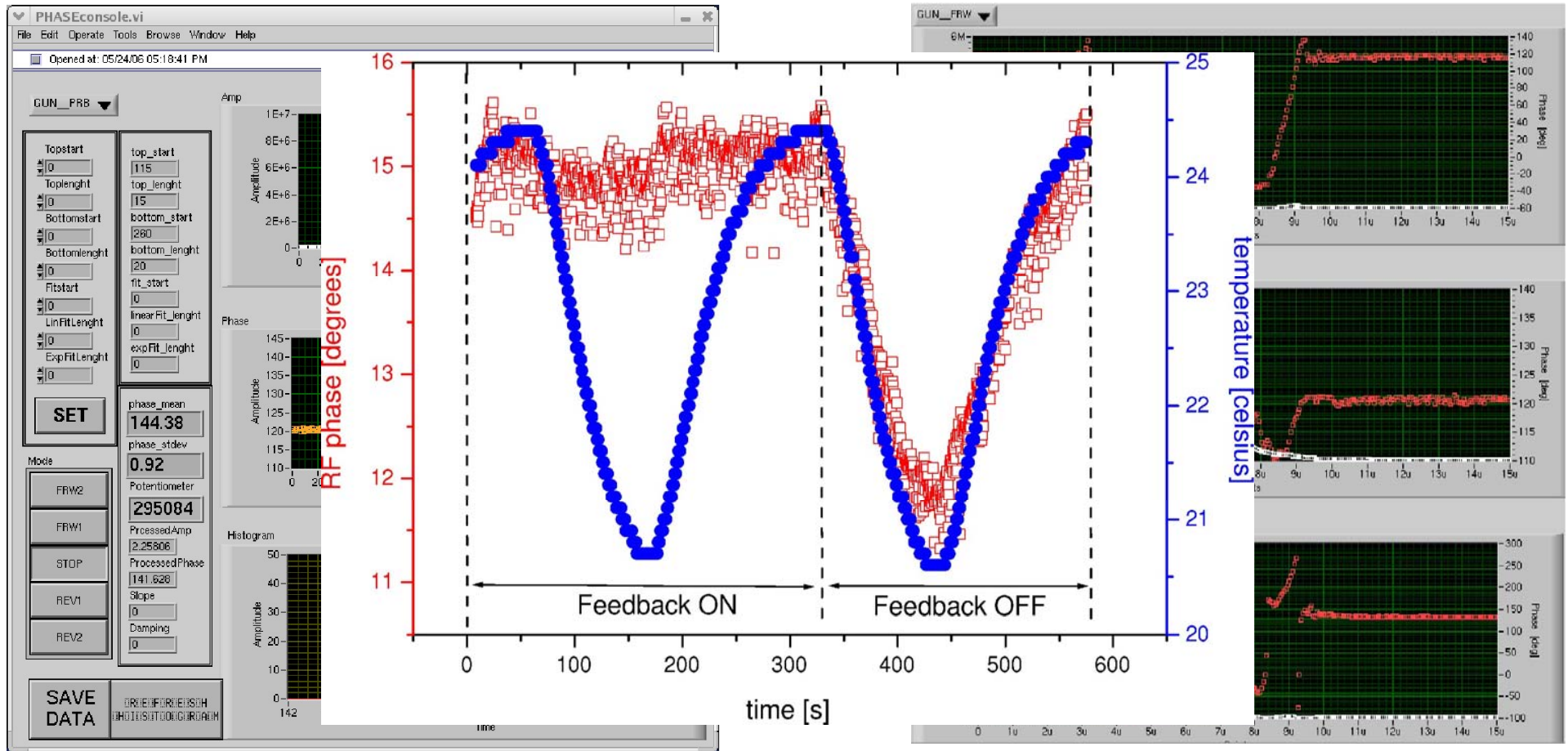


1Gbit/s Ethernet LAN



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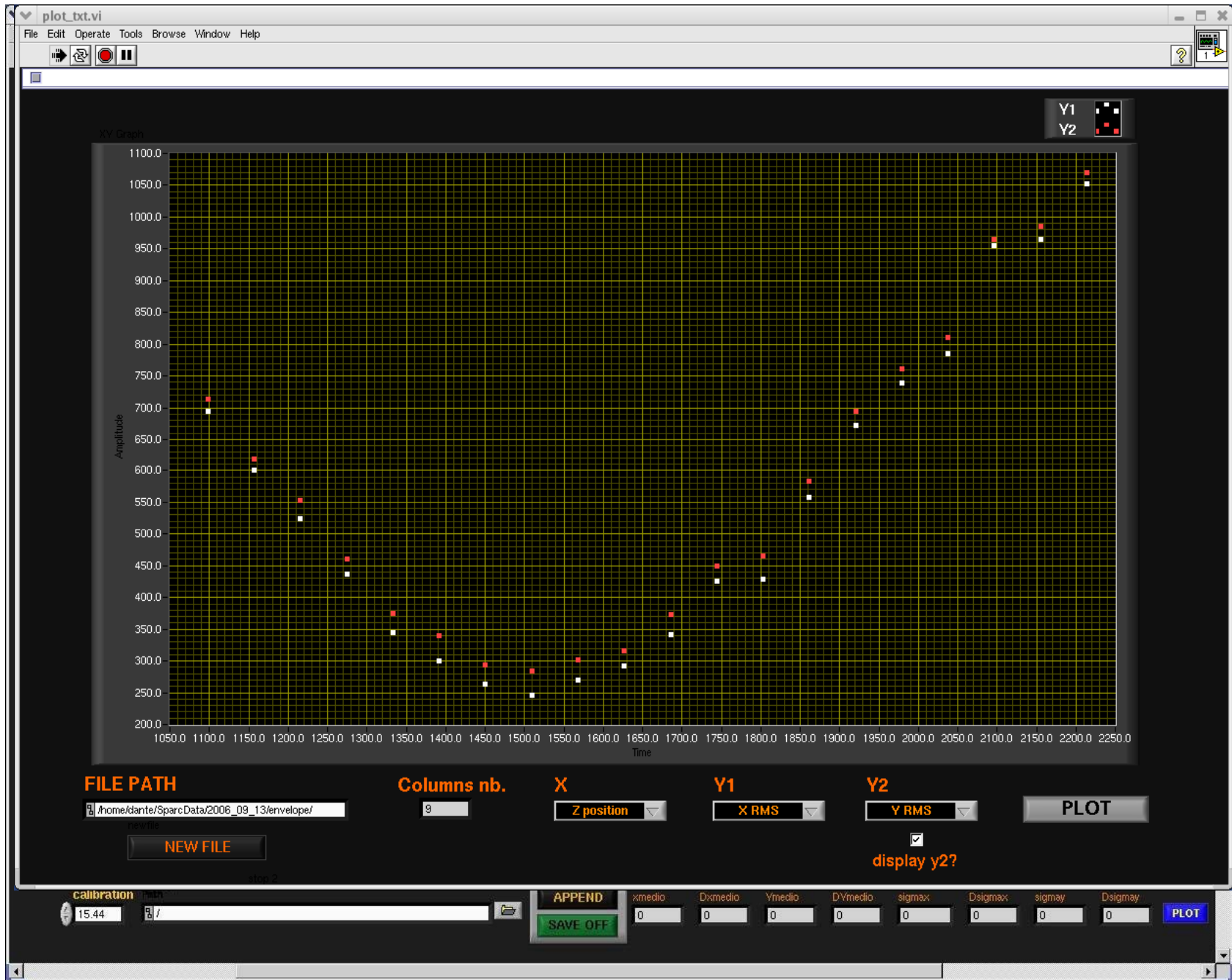
# RF



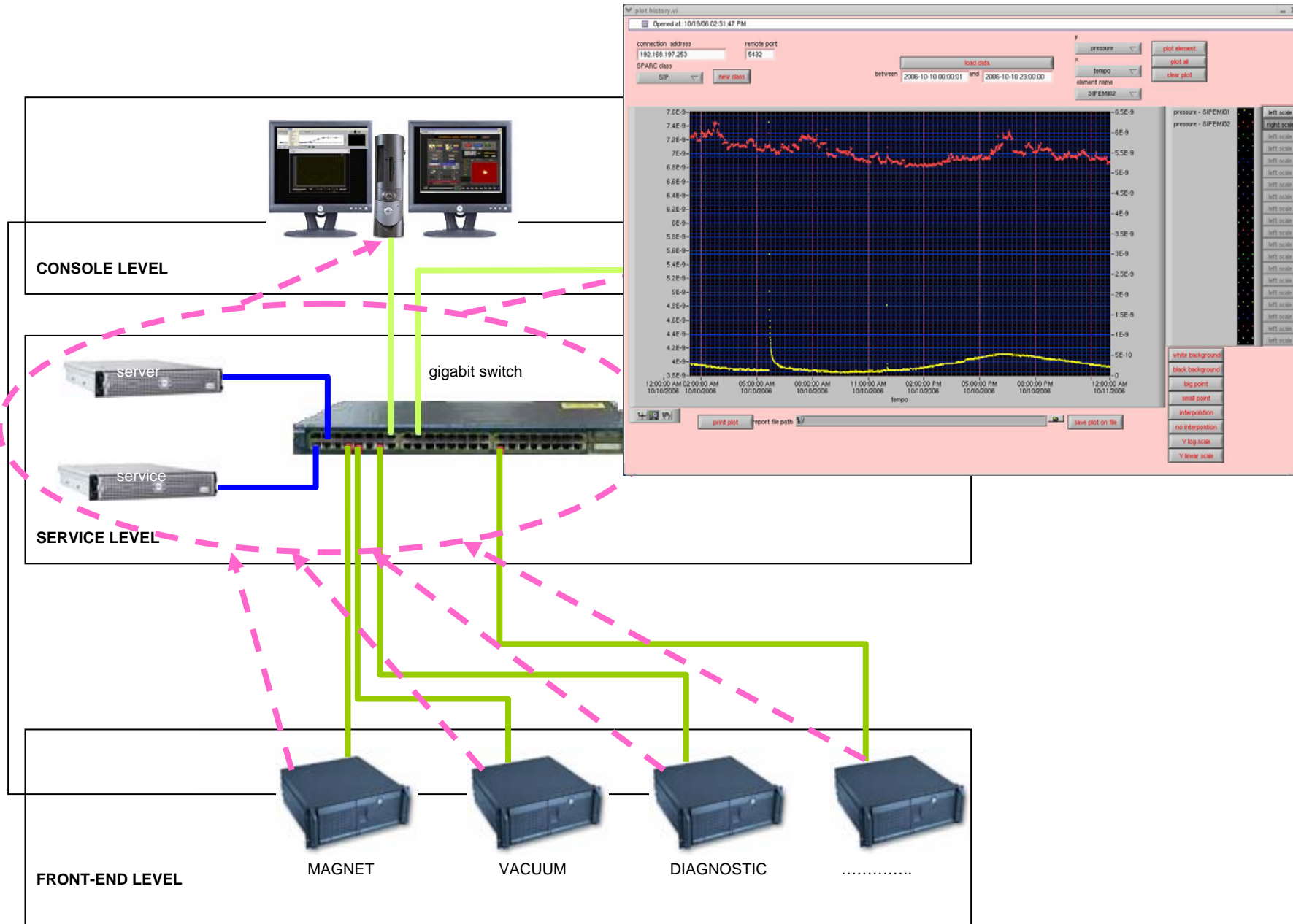
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# DIAGNOSTIC



# Status log machine



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