#### Virtual LAB

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http://www.phy.hr/~mfuric/vlab

## INTELECTUAL ARCHITECTURE OF THE CONTROL ROOM

Hardware controling PC's

Data taking Computer TV screens linked with TV camera for visual inspection

All are Internet accessible

CORE OF THE
EXPERIMENT
CAN BE
MIRRORED
TO ANOTHER
LOCATION
ON THE PLANET
VIA INTERNET

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# COMMON FEATURES IN COMPLEX EXPERIMENTATION







### NEW DIMENSIONS ARISING FROM Virtual LAB

- Tapping the best expertise on the global level, cutting traveling expenses logistic restrictions
- Relaxes the requirement for the physical presence.
   Contributes to a "democratization" of researches, intellectually qualified persons can be incorporated while residing at arbitrary location.
- Transferring the complete information including the atmosphere and the research excitement to potentially wide audience.

#### CAPTURING THE YOUTH INTEREST

1970-ies CERN: walk-throughs of active

experiments for general public

Web pages: wealon of information

- "Schedule" a visit: maps hardware photos down to the graphs from the recent data tabbing.
- Contact actual running experiment through video conference (e.g. interview with a member of experimental team, flash the essential histograms online)

#### **OBSTACLES IN REALISATION**

- Financing hardware solvable
- Financing wide internet band grants?
- Security of the research project
- Not the problem of the classical research type. Intrusion into commanding experiment or disturbing data acquisition is extremely serious threat.
- One line is allowing the access for public at the passive level. Alternative is a more risky approach with a sophisticated identification procedures.

#### CONCLUSION

### Virtual laboratory provide real breakthroughs for human activities

- New approach in sciences
- Raising the awareness on the planetary level
- Can be used as a new means of communication in activities of human solidarity

#### **SCHEDULE**

 Review high-level schedule milestones here



**FOR MORE INFO...** 

List location or contact for detailed schedule (or other related documents) here

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