

World Wide Webcast from the globe; a closing event of WYP 2005

- Date: Thursday, December 1, 2005
- Time: from 12:00 to 24:00 CET (guinness record)
- Four main broadcast platforms so far:
 - ✓ CERN, The Science Museum London, Fermilab and The Exploratorium (Tokyo and Australia under discussion)
- Connections with HEP labs and Science Museumsaround Time Zones
- Live Q/A sessions with remote audience from Science Museums (ECSITE)





Scope

Objective

- ▼ To celebrate WYP with an the official conclusive event.
- Award ceremony for 2005 prizes; SOS 05, AE05, Pirelli Relativity challenge
- Make the public aware of Einstein's physics and yet unsolved mysteries
- To reach out to a world wide audience and media with an unprecedented live event

Targets

- ✓ young people >14, teachers, general public
- Science Museums ECSITE and schools
- HEP worldwide
- Global Media





Main Themes

- ↑ 1 : 2005 WYP (best of), 2005 Prize awards (Pirelli Relativity Challenge, SOS, AE05..),
- 2. Einstein the man: cities (Bern, Pavia, Milan, Berlin...), descendants (Maric family) ...
- 2: RELATIVITY, a different idea of space and time
- → 3: Mass, Gravity
- ✓ 4. Gravitational Waves
- ✓ 5. Antimatter
- 6. The Big Bang: after and before
- 6. Grid Café





Programme

Divided in slots, each devoted to one of the themes, see table (Annex 1) for details. Slot format:

00.00	Opening + handshake connections
00:05	Intro local guests
00:10	First Clip
00:15	THEME: remote connection and theme discussion with guests
00:30	ENTERTAINMENT (Sponsors' time)
00:40	THEME: Second remote connection and continuation of theme discussion
00:45	Q&A
00:55	Over to next SLOT (gingle)





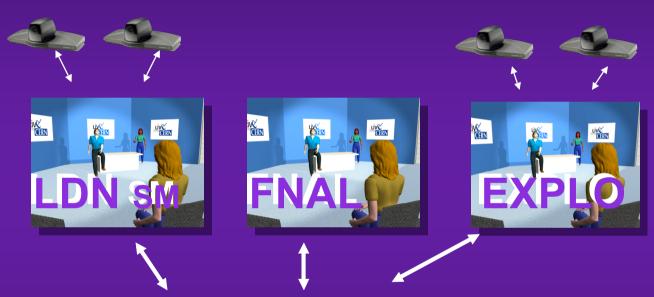
Partners

Technical (encoding, streaming)	- CNAF Bologna (INFN Multimedia) - EBU - Telecom Italia
HEP	Fermilab, Slac, Gran Sasso, EPOG,
Science Museums	The Exploratorium, Ecsite, London Science Museum, Dana Centre, Brera Astronomical Museum Milan, Science Museum Kuala Lumpur, Science Museum Jerusalem, Techniquest Cardif, Nemo Amsterdam, Heureka Helsinki,
Other networks	WYP international Steering committee, EPS, Xploranet, UNHCR
Broadcasters	RAI, TSI
Commercial	Pirelli & Telecom Italia, Grid openlab members, Swiss watchmaker





WWWcast Architecture



streaming



encoding



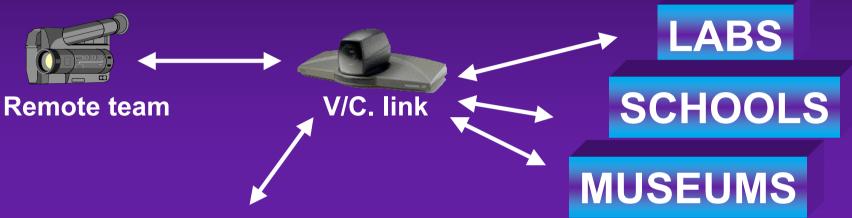








Webcast Process

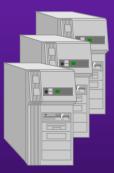








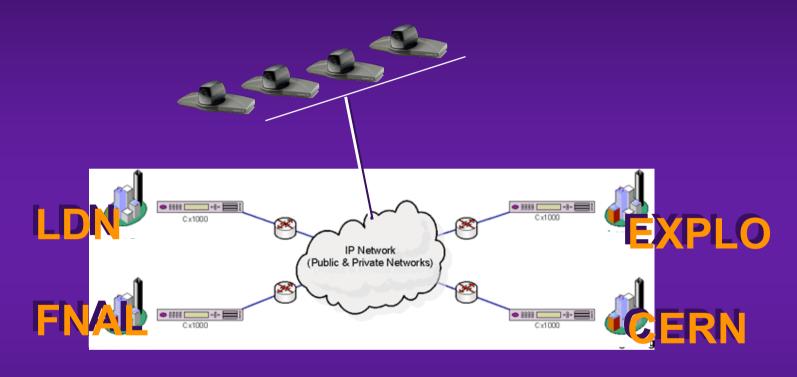
streaming







Network Architecture



- •Broadcast IP boxes (1-3 Mbps, MPEG2/MPEG4) Ex: Path1
- •Private IP carriers w guaranteed bandwidth EX: Level3, Colt etc.
- Alternative: satellite





Technical requirements

• **Platforms** (CERN, The Exploratorium, The Science Museum, Fermilab, Tokio,...)

will produce their own show

Requirements: local video team and equipment and high-end videoconferencing connection + expert.

 Simple remote connections (for Q/A sessions or guests)
 need standard videoconference system to get connected to the platform.

Encoding, streaming and platform switching

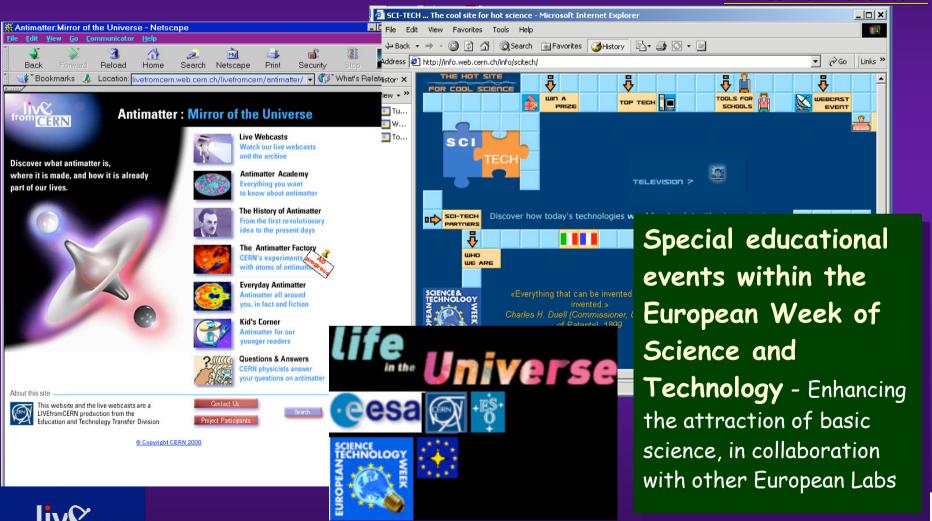
are catered for by CNAF Bologna (team at CERN) platforms will connect directly to them





Livefromcern previous productions

www.cern.ch/livefromcern/



How can you get involved?

How can WYP ISC help

- "Best of" 2005 events video-clips
- Point out events wishing to be connected
- Find Einstein related guests to invite I.e. descendants
- Point out other Einstein related competition and be present at awards section of Webcast on stage, or connected
- Help with Einstein biography section: contacts with cities where E. lived for remote (live or recorded) connections
- BERN exhibition: short clips about relativity visualized (pre-recorded), to be shown during Webcast







More info

http://www.cern.ch/wwwebcast