BLOCKS OF ACTIVITIES

NETWORKING ACTIVITIES (8) and MANAGEMENT

TRANSNATIONAL ACCESS ACTIVITIES (5)

JOINT RESEARCH ACTIVITIES (14)
Joint Research Activities

- JETCAL
- SiPM
- CARAT
- SPINMAP
- INFN
- GS1
- ULISI
- FPCC
- FutureGas
- WWU
- FutureJet
- PolAntiP
- FZJ
- OAW
- JointGEM
- HardEx
- UGlasgow
- DESY
- PIG-JLU
- DIRCs
- SciFi
- LatticeQCD
QCDNet: Hadron physics in non-perturbative QCD

TORIC: Theory of Relativistic Heavy Ion Collisions
**PrimeNet**: Meson Physics in Low-Energy QCD

**FAIRNet**: A world-wide research networking activity for experiments on QCD at FAIR

**ReteQuarkonii**: Testing phases and non-perturbative features of QCD with quarkonium production
**SPHERE:** Strange Particles in Hadronic Environment Research in Europe

**LEANNIS:** Low-Energy Antikaon-Nucleon and -Nucleus Interaction Studies
**TDMNet**: Mapping out the Transverse Structure of the Nucleon
HADRONIC PROBES

- FZJ - COSY
- GSI
- INFN – LNF
• UMainz-MAMI
THEORETICAL STUDIES

• FBK-ECT*
CARAT: Characterization of Advanced Diamond for Particle Detection

FPCC: Frontier Photon detectors for Cherenkov Counters

FutureGas: Detector and electronics development for large-area low-mass self-triggered gaseous detectors

DIRCs: Development of fast, compact Cherenkov counters based on the Detection of Internally Reflected Cherenkov light

SciFi: Frontier scintillation detectors: inorganic scintillating fibers and performance control
HardEx: Hard Exclusive Reactions

JointGEM: Ultra-light and ultra-large tracking systems based on GEM technology

ULISI: Ultra-light silicon tracking and vertex detection systems for frontier precision experiments

JETCAL: Electromagnetic Calorimeter for Jet Quenching Study

SiPM: Silicon Multiplier-Matrix Geiger-Mode Avalanche Micro-Pixel Photo Diodes for Frontier Detector Systems
**SPINMAP**: Spin Oriented Nuclei for Structure Mapping

**PolAntiP**: Polarized Antiprotons
**FutureJet**: Cryogenic jets of nano-to micrometer-sized particles for hadron physics
LatticeQCD: Lattice Quantum Chromo Dynamics
Relevant features of the work packages

• Interconnections

• Interdependencies
INTERCONNECTIONS AMONG DIFFERENT TYPES OF ACTIVITIES
INTERDEPENDENCIES BETWEEN A NETWORKING ACTIVITY, RTDs AND EXPERIMENTS

FAIR - CBM

FAIR - PANDA

WP7: FAIRNet

WP18: FutureGas

WP21: Sci-Fi

WP24: JointGem

WP26: ULISI

WP28: SiPM

WP7: FAIRNet
The HadronPhysic2 Project

- Coordinator: INFN, Italy
- Project Coordinator: Carlo Guaraldo (INFN-LNF)
- Consortium: 46 European Organizations
- Other involved Institutions: 124
- Involved researchers: more than 2,500
- Involved Countries: 36
- EC requested contribution: 10 M€
- Contract duration: 30 months
BENEFICIARIES PER COUNTRY

- Germany 18
- United Kingdom 4
- France 3
- Poland 3
- Spain 3
- Austria 2
- Czech Republic 2
- Italy 2
- Sweden 2
- The Netherlands 2
- Croatia 1
- Finland 1
- Hungary 1
- Norway 1
- Portugal 1
- Romania 1
ACTIVITY LEADERSHIPS PER COUNTRY

- Germany: 14
- Italy: 7
- Austria: 2
- France: 2
- United Kingdom: 2
- Sweden: 1
REQUESTED EC CONTRIBUTION PER COUNTRY

- Germany 42%
- Italy 35%
- France 8%
- Sweden 3%
- Austria 3%
- United Kingdom 3%
- Spain 1%
- Finland 1%
- The Netherlands 1%
- Czech rep. 1%
- Norway 0%
- Croatia 0%
- Hungary 0%
REQUESTED EC CONTRIBUTION PER BENEFICIARY

- INFN 31%
- GSI 11%
- FZJ 7%
- CNRS 6%
- UMainz 6%
- UBO 3%
- UGlasgow 3%
- OeAW 3%
- UU 2%
- RUB 2%
- DESY 2%
- WWU 2%
- Carlo Guaraldo 31
## EC Contribution per work package

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Total Human Effort
(in person-months)

Beneficiaries: 17,952.5
Other Involved Institutions: 6,880
GRAND TOTAL: 24,831.5

828 FTE
HADRONGHYSICS2 MANAGERIAL STRUCTURE

GOVERNING BOARD

COUNCIL

COORDINATOR

MANAGEMENT TEAM

MANAGEMENT BOARD

COLLABORATION COMMITTEE

SCIENTIFIC ADVISORY COMMITTEE

EUROPEAN COMMISSION
Probable schedule

• Conclusion of the Negotiation phase within December 2008

• Start of the Contract January 2009
The HadronPhysics2 Project

Carlo Guaraldo, Project Coordinator

NuPECC Meeting - Glasgow, 3-4 October 2008