



News from HadronPhysics2/3

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CONTACTS

LINKS

The HadronPhysics2/3 Project Coordinator

Carlo Guaraldo, INFN Frascati

Project schedule

- Start of the Contract

1 January 2009

- First Annual Report

30 June 2010

- End of the Contract

30 June 2011

31 December 2011



The HadronPhysic2 Project

- Coordinator: INFN, Italy
- Project Coordinator: Carlo Guaraldo (INFN-LNF)
- Consortium: 46 European Organizations
- Other involved Institutions: 103
- Involved researchers: more than 2.500
- Involved Countries: 36
- EC requested contribution: 10 M€
- Contract duration: 30 months

36 months

Total Human Effort (in person-months)

Beneficiaries:	15.448
Other Involved Institutions:	6.069
GRAND TOTAL:	21.517

➡ 717 FTE over 30 months

➡ ~2.400 scientists
(average 30% involvement)

Milestones of the Project (3)

- 2-3 December 2011 – Collaboration Committee Meeting
- 29 February 2012 – Deadline to deliver the Second Periodic Report
- 29 February 2012 – Deadline to deliver the Final Report

 **BUT**

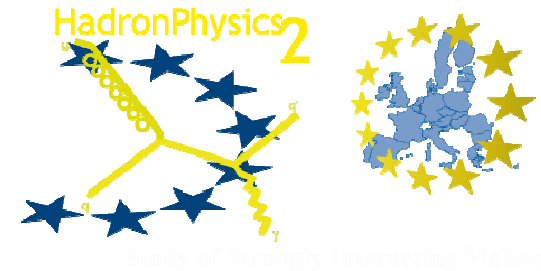
THE REPORTS FROM THE INDIVIDUAL WPs HAVE
TO BE SUBMITTED TO THE COORDINATOR

DECEMBER 18, 2011

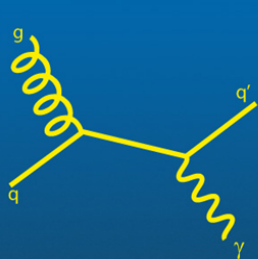
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The new HP2 website

<http://www.hadronphysics2.eu>



HadronPhysics2



Study of Strongly Interacting matter



HadronPhysics2

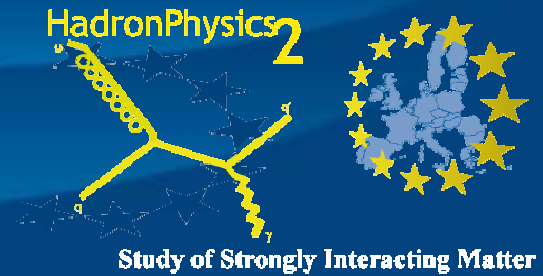
Scientific
and technical
web-site

Hadrons are everywhere – from the lightest atom to the biggest star! Hadron Physics deals with the strongly interacting particles, the so-called hadrons, among which the best known are protons and neutrons. Hadrons are composed of quarks and gluons, whose interaction is described by Quantum Chromodynamics, the theory of the strong interaction which still hides many mysteries. The strong interactions bind hadrons into more complex systems, from atomic nuclei to neutron stars. Under extreme conditions of pressure and temperature, they may lose their identity and dissolve into a new state of matter, the quark-gluon plasma, similar to the primordial matter of the early Universe. The European HadronPhysics2 (HP2) project, in the framework of the VIIth Framework Programme, is the largest and most comprehensive scientific initiative ever taken in the sector of hadron physics. More than 2500 researchers from 150 institutes out of 35 countries are joining their efforts in HP2 in order to arrive at a better understanding of what seems to be one of the most well-preserved secrets of the Nature – the structure and role of hadrons in the Universe. HP2 pursues ambitious, rich and complex scientific and technologic goals within a dynamic and friendly environment open to people all over the world. HP2 world welcomes you.

HadronPhysics2

Public
web-site

The six active blocks of the public website



The new public web pages have the goal to **disseminate all information** related to the HadronPhysics2 project **in a complete, attractive and understandable way**. The home page of this new section is primarily **targeted to the general public, in particular young people**.

The new public home page is structured into **six active blocks**.





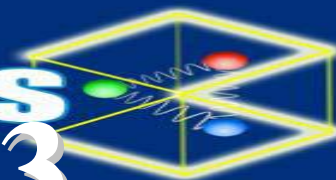
Activity type	RTD
Work package acronym	CARAT
Work package title	<i>Advanced Diamond Detectors</i>

TASKS/Subtasks	2009				2010				2011				2012			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1. ENGINEERING DIA-ON-IR SAMPLES																
1.1 Preparation & struct. charact. of 1cm ² samples																
1.2 Preparation & struct. charact. of 2cm ² samples																
2. METALLIZATION																
2.1 Pad motifs on 1x1cm ² samples																
2.2 Strip-metallization of 2x2cm ² with existing masks																
3. DIA-ON-IR DETECTOR PROPERTIES																
3.1 IV characteristics, TCT measurements, CCE																
3.3 1cm ² pad detectors: energy- and time resolution																
3.4 Strip detectors 2cm x 2cm: spatial homogeneity																

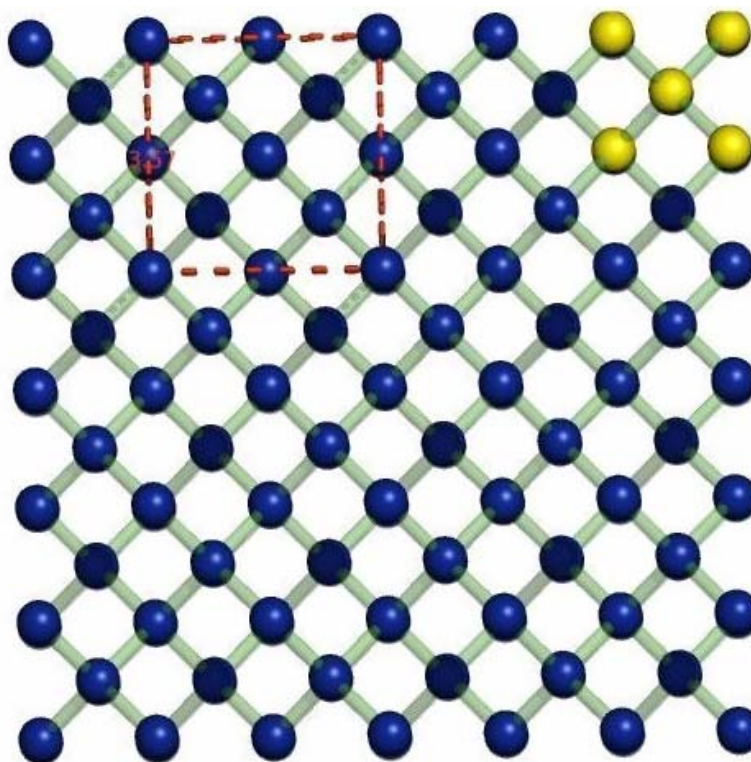
Milestones			
1	1cm x 1cm test samples ready	5	Detector characterization in laboratory completed
2	2cm x 2cm test samples ready	6	Spectroscopy- and timing properties evaluated
3	Pad motifs realized	7	Spatial homogeneity characterized
4	Strip metallization completed		

Study of Strongly Interacting Matter

HadronPhysics



ADAMAS



Advanced Diamond Assemblies