



'The strong interaction at the frontier of knowledge: fundamental research and applications'

WP2: DISCO - Dissemination and Communication (DISCO)

**Maria Paola Lombardo (on behalf of Catalina Curceanu - INFN)
INFN, Italy**

STRONG-2020 Kick-off meeting
October 23-25, 2019

○ WP objectives:

To promote and realize efficient and targeted dissemination, exploitation of results and communication activities resulting from the dedicated research and transnational activities performed within the project, in order to raise the awareness about their importance, to promptly inform the various communities on the obtained results and to enhance the future financing opportunities targeting the self-sustainability of the involved community, with special care on sex and gender dimension.

DISCO is a transversal and integrated activity, which involves all the other WPs of the project. The objective is to promote and realize dissemination and communication of the results coming from the project, with special focus on the involved research infrastructures, toward:

- The scientific community of specialists in hadron physics
- The wider scientific community
- The general public, industry representatives and policy makers

○ WP tasks

Task1: Realization of activities with impact on the scientific community of specialists in strong interaction physics, which will include: **meetings** among various WGs, **publications and reports** distributed on the STRONG2020 web-page. A **Workshop**: “Present and future perspectives in Strong Interaction Physics in the 21st Century”, opened also to participants outside the STRONG-2020 community, will be organized. A **Newsletter** to be sent to the participants to the project will be realized and published every three months

Task2: Realization of activities with impact on the wider scientific community, such as (but not limited to): **publications of the general findings** of the project and at the STRONG-2020 research infrastructures in top journals with high impact on overall scientific community; **participation to conferences and workshops** attended by a broad scientific audience; **exploration of dissemination channels offered by participating Institutions.**

Task 3: Realization of **activities with impact on general public**, such as: dedicated **STRONG2020 web-page for public**; participation to the **Open Labs and Women in Science Day** in the involved institutions and to the **European Researchers nights**; **seminars and conferences in schools, universities and public sites**; **hands-on experiments** in the framework of stages for students; dedicated **video-channel for presentation the STRONG-2020 activities**; **publications in social media** (Facebook, Instagram); promote **articles in newspapers and press releases**.

Task 4: Realization of **activities with impact on potential partners in industry**, such as (but not limited to): **technical reports** containing innovation in technology resulting from STRONG-2020 for the potential industrial partners; **meetings, symposia**, visits and discussions both in the institutes and research infrastructures participating in STRONG-2020 and in the potentially interested industry partners.

Task 5: Realization of **activities with impact on policy makers**, such as (but not limited to): realization of **documents summarizing STRONG-2020 findings and perspectives, beyond the project deadline**, to be distributed at national, European and international levels; **visits of policy makers to the STRONG-2020 research infrastructures and laboratories**; **communication with the European Commission**.

The DISCO Work Package will be led by INFN (Catalina Curceanu), with the support of a Dissemination Board (DB)

DB was proposed by C. Curceanu – after interaction with WPs representatives – and named by EB.

DB started its activity in October 2020 and is planning its first meeting within end of 2020.

Dissemination Board (DB)

Catalina Curceanu, WP DISCO resp., Chair

Yvonne Leifels, GSI Darmstadt, Germany, **Transnational access**, 7 Work packages

Herve' Moutard, CEA, France, **Virtual Access**, 2 Work packages

Raphael Granier de Cassagnac, CNRS France, **Quark Gluon Plasma**, 4 Work packages

Marco Battaglieri, INFN Genova, Italy, **QCD, SM**, 3 Work packages

Fulvio Tessarotto, INFN Trieste, Italy, **Detectors**, 3 Work packages

Maria Paola Lombardo, INFN Firenze, Italy, **Lattice QCD**, 1 Work package

Piet Mulders VU University in Amsterdam, **Nucleon Structure and Strangeness**, 6 Work packages

Maurizio Boscardin, FBK – Italy **Representative of industries**

TBD, Targets and Polarization, 4 Work packages



BD Composition and infos

(WPs be careful for your representative!)

Chair: Dr. Catalina Curceanu – LNF-INFN

Experienced researcher and spokesperson for SIDDHARTA-2 and VIP-2 Collaborations (hadron physics).

Experienced in Dissemination activities: lead Dissemination within HadronPhysics-2 and 3 projects: organized tens of Workshops and International Conferences: writes articles for public in 3 countries: organized schools for students and teachers: seminars and conferences in schools, public places: participant in 4 TEDx events and Festivals



BD Composition and infos

(WPs be careful for your representative!)

Dr. Yvonne Leifels, GSI Helmholtzzentrum für
Schwerionenforschung, Darmstadt (GSI),

**representative of TNA – Transnational access, for which we
have 7 Work packages**

Staff scientist at GSI and since 2011 Chief of Staff of the
Research Director of GSI. Responsible for Transnational Access
to GSI in the framework of STRONG-2020. Co-Organizer of the
GSI Summer Student Program. Scientific Interests: Heavy ion
collisions at intermediate energies!



BD Composition and infos

(WPs be careful for your representative!)

Dr. Herve' Moutard, CEA, France,
representative of VA - virtual access, for which we have 2
Work packages

Hervé is an expert of hadron structure studies and responsible of the nucleon structure laboratory in IRFU. He created the PARTONS project and has been leading the international development team. He has a long experience in various aspects of scientific computing, including lattice QCD or radiative hydrodynamics simulations of electromagnetic plasmas. He is also quite involved in teaching and in student supervision.



BD Composition and infos
(WPs be careful for your representative!)

Dr. Raphael Granier de Cassagnac, CNRS France,
representative of Quark Gluon Plasma, for which we have 4
Work packages

Raphael is a member of the CMS collaboration at CERN, one of the leaders of its heavy-ion programme, expert in heavy flavor and electroweak boson physics. In addition, he participates to several dissemination projects: participation to outreach conferences (the Utopiales at Nantes for instance), partnership with the Manzalab company to teach in virtual reality, conception of a video game on particle physics for a broad audience. In 2019, he was awarded a research and education chair on the "Science and Video game" theme



BD Composition and infos

(WPs be careful for your representative!)

**Dr. Marco Battaglieri, INFN Genova, Italy,
representative of QCD, SM, for which we have 3 WPs**

Senior staff scientist at INFN, studied for more than 20 years the internal structure of the nucleon and the hadrons spectra. Member of international collaborations (GRAAL, CLAS, HPS, BDX), used middle energy electromagnetic probes (1-10 GeV electron and gamma beams) to study the hadron properties. He is co-PI of JR7 'Light and heavy quark hadron spectroscopy' working package in STRONG-2020. He is an active collaborator of outreach programs such as EEE - Extreme Energy Events, OCRA - Outreach Cosmic Ray Activity, aiming to spread the scientific culture in the society. He is currently leading one of the experimental Halls at Jefferson Lab (US).



BD Composition and infos

(WPs be careful for your representative!)

**Dr. Fulvio Tassarotto, INFN Trieste, Italy,
representative of Detectors, for which we have 3 WP**

Senior Researcher of INFN Trieste, is one of the world leading experts in large size single photon detectors.

He is co-spokesperson of the COMPASS Collaboration at CERN and coordinator of the Italian participation in the RD51 Collaboration. He has a long experience in measuring spin effects in hadronic physics, developing gaseous detectors and managing occupational safety and health problems.

BD Composition and infos

(WPs be careful for your representative!)

Maria Paola Lombardo, INFN Firenze, Italy

representative of Lattice QCD for which we have 1 WP



Science Communication Officer for the European COST Action THOR - Theory of Ultrarelativistic Heavy Ion Collisions, and co-organiser of few events for Eureka! 2018 and 2019, the Science Spring Festival of the City of Rome, Italy. Proposer and scientific supervisor of a graphic novel on Quark Gluon Plasma. Author of presentations and articles for a general public. Main scientific interests include Quark Gluon Plasma and phases of strong interactions, topology and axions, and computational physics in general. Currently serving on the PRACE Access Committee, on the Scientific Council of the Center for Mathematics and Theoretical Physics CMTP, on the Management Board of COST-THOR, with many opportunities for outreach to nearby fields.



BD Composition and infos

(WPs be careful for your representative!)

**Piet Mulders VU University in Amsterdam,
representative of Nucleon Structure and Strangeness, where
are 6WPs**

Research areas:

- (1) Hadron structure in QCD, in particular spin and transverse momentum structure of partons (quarks and gluons).**
- (2) The symmetry structure and fundamentals of the standard model of particle physics.**

BD Composition and infos

(WPs be careful for your representative!)

Maurizio Boscardin, FBK – Italy

Representative of industries

Senior researcher of the Micro Nano Facility at FBK. His research activity deals with technology development for special sensor fabrication, with particular emphasis on high resistivity silicon radiation/particle detectors. The main research topics have recently been concerned with: i) Development of planar detectors for high energy physics experiments as double side microstrip, pixel, SDD. ii) Development of special technologies for fabrication of advanced radiation/particle detectors as Active Edge , Si-3D and LGAD. He has co-authored more than 250 articles published in international journals or presented at international conferences.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824093.

BD Composition and infos

**Representative of Targets and polarisation WP28 WP29
WP30 WP31**

Still missing



WP2: Update on progress

First activity:

LOGO of STRONG-2020 (with EB Collaboration):



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824093.

- 3 deliverables are due for Reporting Period 1 (18 months, June 2019-November 2020) : D2.1 is due M3 (Aug 2019), D2.2 is due M12 (May 2020) and D2.3 is due M16 (Sep 2020)

Deliverable Number ¹⁴	Deliverable Title	Lead beneficiary	Type ¹⁵	Dissemination level ¹⁶	Due Date (in months) ¹⁷
D2.1	Press release	30 - INFN	Websites, patents filling, etc.	Public	3
D2.2	DISCO web-site	30 - INFN	Websites, patents filling, etc.	Public	12
D2.3	YouTube channel	30 - INFN	Websites, patents filling, etc.	Public	16

- Advancement:** D2.1 DONE (see snext slide): D2.2 undergoing: D2.3 to start
- Expected delivery date:** D1 – June 2019: D2.2 – m. 12: D2.3 - m.16 (on time)

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STRONG-2020: The New European Project at the Forefront of Strong Interaction Studies

The STRONG-2020 project is the new European Integrating Activity for Advanced Community, with a four year duration, recently approved by the European Community within the Horizon-2020—Research and Innovation Framework Programme, as a structured enterprise to address open questions in the strong interaction studies in theory and experiments, and financed with 10 MEuro. Involving an active community of about 2,500 researchers in Europe, STRONG-2020 will start in summer 2019.

Endorsed by NuPECC, STRONG-2020 brings together many of Europe's leading research groups and infrastructures presently involved in the forefront of research in strong interaction. It provides transnational access to six world-class research infrastructures in Europe: COSY, MAMI, LNF-INFN, ELSA, GSI, and CERN, and virtual access to open-source codes and automated/simulation tools. STRONG-2020 fosters the synergy between theoreticians and experimentalists, supporting the activities of the European Centre for Theoretical Studies in Nuclear Physics and Related Areas (ECT*, Trento).

The STRONG-2020 Consortium includes 44 participant institutions embracing 14 EU Member States, one International EU Interest Organization (CERN), and one EU candidate country (Montenegro). Together with host institutions of other 21 countries, participating in the activities without EU benefits, STRONG-2020 involves research in 36 countries.

The STRONG-2020 results will have a significant impact on the study of the strong interaction and the Standard Model (SM). The project will also contribute to fundamental research for physics beyond SM, impacting other scientific sectors, such as astrophysics and theories of strongly coupled complex systems in condensed matter. The tools and methodologies for the new cutting-edge experiments within STRONG-2020 will provide upgrades to the European Research Infrastructures, enhancing their competitiveness. The developed technologies will also impact medicine and industry and may lead to advances in computing/machine learning.

STRONG-2020 will promote training and education activities that will bring qualified personnel to the job market and current state of the art in science communication dissemination activities.



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SUBATECH CNRS/IN2P3,
Nantes, France



CATALINA CURCEANU
LNF-INFN, Frascati (Roma), Italy

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The screenshot shows the INFN (Istituto Nazionale di Fisica Nucleare) website. The header includes the INFN logo and the text "LABORATORI NAZIONALI DI FRASCATI". A navigation bar contains links: HOME, ABOUT US, RESEARCH, INFRASTRUCTURES, OUTREACH, NEWS & MEDIA, VISIT US, and LNF USERS. The main content area features a news article titled "STRONG-2020: THE NEW EUROPEAN PROJECT AT THE FOREFRONT OF STRONG INTERACTION STUDIES" dated 6 June 2019. The article includes a "HORIZON 2020" banner image and text describing the project's goals, its participation in the European Horizon 2020 program, and the role of INFN and its laboratories. At the bottom of the article, there are social media sharing buttons for Facebook, Twitter, and Google+.

STRONG-2020: THE NEW EUROPEAN PROJECT AT THE FOREFRONT OF STRONG INTERACTION STUDIES

6 June 2019 News

The INFN Frascati National Laboratories participate to the **STRONG-2020 project**, a new European Integrating Activity for Advanced Community within the **European Horizon-2020** – Research and Innovation Framework Programme. STRONG-2020 is a structured enterprise to address the open questions in the **strong interaction studies** in theory and experiment, building upon and going beyond the previous Hadron Physics HP, HP2 and HP3 projects in the framework programmes of FP6 and FP7. Financed with 10 ME, STRONG-2020 has started on 1st of June 2019 and will have a four year duration.

STRONG-2020 brings together many of the European leading research groups and infrastructures, among which **Frascati Laboratories**, presently involved in the forefront research in strong interaction. It provides transnational access to six world-class research infrastructures in Europe, which complement each other in particle beams characteristics (COSY, MAMI, LNF-INFN, ELSA, GSI, CERN) and virtual access to open-source codes and automated/simulation tools.

The STRONG-2020 Consortium includes 44 participant institutions, among which INFN, embracing 14 EU Member States, one International EU Interest Organization (CERN) and one EU candidate country (Montenegro). Together with non-beneficiary host institutions of other 21 countries, STRONG-2020 involves research in 36 countries. The project is structured in 32 Work Packages (WP): Project Management and Coordination, Dissemination and Communication, 7 Transnational Access Activities, 2 Virtual Access Activities, 7 Networking Activities and 14 Joint Research Activities. LNF-INFN take active part in 10 of the WPs, leading 4 of them.

The STRONG-2020 results will have a significant impact in the study of the strong interaction and the Standard Model (SM) of the particle physics. The tools and methodologies for the new-cutting-edge experiments within STRONG-2020 will provide upgrades to the European Research Infrastructures, such as LNF-INFN, enhancing their competitiveness. The developed technologies will also impact in medicine (diagnostic tools, cancer treatment) and industry (line-scan cameras, 3D-magnets technology) and may also lead to advances in computing/machine learning.

STRONG-2020 will promote training and education activities at Frascati, including students and postdocs, which will bring qualified personnel to the job market, **as well as dissemination activities** at current state of the art in science communication (Catalina Curceanu).

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This project has received f

nt No 824093.

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Search



- MS7 has to be achieved M6 (Nov 2019) and MS8 has to be achieved M14 (July 2020)

Milestone number ¹⁸	Milestone title	Lead beneficiary	Due Date (in months)	Means of verification
MS7	DISCO-WEB existent	30 - INFN	6	Pilot Web-site working
MS8	DISCO-youtube channel started	30 - INFN	14	DIS You-tube channel accessible

- Advancement: MS7 – ongoing: MS8 – to start
- Expected delivery date:
MS7 – m6 (end November) : MS8 – m14