Dear colleague,

I am INFN coordinator of the Italian activity at JLab, member of CLAS and SOLID Collaborations, co-spokesperson of two JLab approved experiments, author of several approved proposals for experiments in Hall-A and B, member of the EIC user group. I am co-responsible of the CLAS12 RICH detector and contributing to several hardware projects at JLab (GlueX DIRC, SOLID and EIC Cherenkov detectors, polarized targets, readout electronics and compact magnets).

I am enthusiastic about the opportunities offered by CEBAF, a unique facility that has still to reach the full potential after the recent upgrade to 12 GeV. I am convinced that working on the intensity frontier with the capability to pursue a variety of scientific goals with cost-effective investments should be the distinctive feature of the laboratory.

I am aware a demanding phase for the lab, the compelling time of maturity, is coming that requires long-term vision, competence and commitment. The coexistence with the EIC project is a stimulus to sharpen the mission of the laboratory and the objectives of the user community in the coming years. I consider this a pretty exciting time that demands a strong collaborative relationship between the lab management and the user community.

As a contribution to the JLUO community, I offer my experience in responsible roles in various Collaborations and Scientific Committees at different laboratories (DESY, CERN, JLab). This allowed me to understand the importance of working in a cooperating and supportive environment, promoting diversity and inclusion, supporting a broad range of investigations to maximize the physics outcome.

I am eager to contribute to a successful and stimulating environment at JLab and would be pleased to serve as JLUO BoD Chair if you consider worth.

With my best regards,

Marco Contalbrigo

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Contalbrigo Marco^a

EDUCATION:

2001	PhD in Physics at Ferrara University Thesis: <i>Precise measurement of the</i> $K_L \rightarrow \pi^0 \gamma \gamma$ <i>decay</i> Supervisor: prof. Pietro Dalpiaz. Experiment: NA48 (CERN)
1996	Degree in Physics at Padova University (evaluation of 110 over 110 cum laude) Thesis: Search of tau neutrinos in the CERN SPS neutrino beam Supervisor: prof. Milla Baldo-Ceolin. Experiment: NOMAD (CERN)
2001-05	Post-doc fellowship at Ferrara University: Calibration and analysis of a polarized atomic target.
2001	Post-doc fellowship at Perugia University: Study of direct CP violation in the K_L decay and rare K_S decays.
RESEARCH	I RESPONSIBILITIES:
2005-	INFN Researcher INFN - Sezione di Ferrara
2006-12 2018- 2019- 2009- 2008-09 2013-	Coordinator of the Nuclear Physics Group of INFN-Ferrara INFN National Responsible of the JLab12 experiment INFN Local Responsible of the EIC experiment INFN Local Responsible of the JLab12 experiment INFN Local Responsible of the HERMES experiment Responsible of the Particle Detector Laboratory of INFN-Ferrara
2014- 2019- 2012-14	Coordinator of the national priority project CLASMED Activity Leader within the European Program STRONG2020 Activity Leader within the European Program HP3
2016- 2013- 2011- 2009- 2010-13	 Member of the CLAS Coordinating Committee Contact person of the CLAS12 Run-Group of experiments H Co-spokesperson of the C12-11-111 experiment at JLab (conditionally approved) Co-spokesperson of the E-09-008 experiment at JLab Deputy Spokesperson of the HERMES experiment
2016- 2010-13 2008-13 2008-12 2003-06	 Chair Deep Process Working Group (CLAS) Analysis Coordinator of the HERMES experiment Editorial Board Member of the HERMES experiment Convener of physics with transverse polarization (HERMES) Convener of physics of inclusive processes (HERMES)
2013- 2018- 2006-10 2000-02	Co-responsible CLAS12 RICH Co-responsible mRICH, dRICH and readout electronics for the EIC PID Consortium Vice-responsible of the PAX detector Responsible beam monitor NA48

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Advisory and Dissemination Activity:

2020-	Member of the CERN SPSC
2016-2018	Member of JLab User Group Board of Directors
1997-	Author of more than 220 published papers
2012-	Peer-reviewer for Phys. Rev. B, Eur. Phys. J. A and Nucl. Instrum. & Meth. A
1999- 2015- 2008- 2002- 2016	 Speaker at more then 50 Conferences on scientific and technological topics Member of International Advisory Committee of POETIC Conference Editor of 5 Conference Proceedings Member of the Organizing Committee of more than 14 Conferences Convener of the "3D Structure of the Nucleon: TMDs" session at SPIN Conference
2013	Convener of the "Spin Physics" session at DIS Conference

Research Activity

Marco Contalbrigo is Researcher of INFN - Sezione di Ferrara.

He is interested in Electro-Weak and Hadronic Physics and has contributed to several experiments having personal and coordinating responsibilities relative to all the experimental phases: detector project and feasibility study, development and commissioning, signal calibration and event reconstruction algorithms, data analysis and interpretation, publication and dissemination.

He worked on Electro-Weak Physics topics of cosmological interest contributing to precision measurements with discovery potential. With the NOMAD experiment, he contributed to the search of neutrino oscillations in the mass range of large Δm^2 , studying their potential role in the Universe evolution and dark matter formation. With the NA48 experiment, he studied the CP violation in the kaon sector, looking for an explanation of the matter-antimatter asymmetry of the visible Universe.

He concentrates his activity on Hadronic and Spin Physics, i.e. strong interaction processes and dynamics. The modern precision measurements, even in the electro-weak sector, are often limited by the uncertainties on the nuclear and hadronic contributions. In this field the experimental situation, after several years of almost stagnation, has begun a rapid evolution, aiming to the explanation of long-standing questions on the nucleon structure (spin puzzle, single-spin asymmetries, proton form-factors) and opening new ways of investigation of the peculiar strong force dynamics. Moreover, Spin Physics experiments offer technological challenges for the development and maintenance of polarized beams and targets which require R&D of innovative techniques.

As Coordinator of the Nuclear Physics Group of INFN - Sezione di Ferrara, he has promoted the extension of the group activity, initially concentrated on HERMES experiment, to other projects: JLab12, PAX/JEDI and EIC. He promotes status-of-the-art laboratories in Ferrara (polarized target, cryogenics, silicon detectors, Cherenkov detectors). He is contributing to new experimental proposals on Hadronic and Spin Physics.

He contributed to the HERMES investigation of nucleon spin-structure, to the measurement of the quark-spin component and to the three-dimensional study of non-collinear dynamics and novel parton distributions related to partonic spin-orbit effects. He has led with several responsible positions the activity of such a precursor experiment, that has published several first-observations and has contributed to open a new avenue of research in QCD still under intense experimental and theoretical activity.

He participates to the PAX/JEDI program for the fine control and manipulation of the spin in accumulation rings in conjunction with polarised targets. Possible applications are the use of antiproton polarized beams for unique measurements of new parton distributions and time-like phases of the proton form factors, and precision measurements of the spin precession to verify fundamental symmetries as time invariance and electric dipole moment of particles.

He has promoted the Spin Physics program for the 12 GeV JLab upgrade. He has contributes to several approved experimental proposals for the precise study of the spin effects and novel parton distributions in the valence region with high luminosity and complementary spectrometers. He is leading the project of a ring-imaging Cherenkov detector for hadron identification in CLAS12 (experimental Hall-B) in the 3 to 8 GeV/c hadron momentum range. He is contributing to the development of innovative polarized targets, to minimize the dilution of non-polarisable materials and the acceptance limitations due to the holding magnetic fields.

He promotes the realization of an Electron-Ion Collider (EIC) of high luminosity and polarization to study the strong force dynamics in confined states and in particular nucleon 3D structure, spin-orbit and short-range correlations, parton propagation in cold nuclear matter, gluon condensate.

He contributes to the R&D activity on new technologies on polarized targets and beams and on particle detectors with potential applications for other fields (alternative energy, medical imaging, homeland security).

Ferrara, 06/08/2021

Marco Contalbrigo

Mara Cartilly