



# Egle Tomasi-Gustafsson

## Curriculum Vitae

### Skills

Experimentation and Phenomenology in Nuclear and Hadron Physics managing experiments and organizing international teams, Modelization, Simulation of complex systems, Computing (Linux, Windows, Microsoft Office, Root, L<sup>A</sup>T<sub>E</sub>X), Teaching, Students' supervision, Event organisation and planning, Mediation, Multi-lingual intercultural communication, Evaluation of scientific articles and projects, Adviser for recruitment and career development.

### Experience

#### Scientific Activity

1980–Present **Researcher in fundamental physics**, *Commissariat à l'Energie Atomique (CEA)*, Saclay, France.

Experiment and Phenomenology in hadron and nuclear physics in the intermediate and high energy domains. Original results are reported in more than 200 peer reviewed articles, the scientific activity is presented in more than 200 talks in seminars, workshop and conferences.

2015–present **Leading researcher**, *IRFU/SPhN, CEA Saclay*, France.

- Phenomenology of hadronic reactions
- Spokesperson of the ALPOMII experiment
- Chair of NICA-SPD Collaboration Board (Dubna)
- Member of NICA-SPD and PANDA collaborations

2008–2014 **Leading researcher**, *CNRS/IN2P3/Institut de Physique Nucléaire d'Orsay*, France. On leave of absence from CEA, member of the PANDA experiment at FAIR, developing a scientific program in hadron physics with antiproton beams.

1998–2008 **Leading researcher**, *CEA/DSM/IRFU/SPhN*, Saclay, France.

Member of the GEP and T20 experiments at Jefferson Laboratory (USA), phenomenology of scattering and annihilation processes.

1988–1997 **Scientific Coordinator and researcher**, *Laboratoire National Saturne*, Saclay, France.

Spokesperson of experiments related to proton and deuteron polarimetry:

- LNS-135 measured the isoscalar spin strength in several nuclei [*Physics Report 289 (1997) 235-382*] (*Review article*).
- LNS-291 built HYPOM, the first vector and tensor polarimeter for deuterons at energies of a few GeV [*Nucl. Instrum. Meth. A420 (1999) 90*].

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- 1981–1988 **Researcher**, *CEA/IRF/DPhN/MF*, Saclay, France.  
Participation and direction of experiments in the field of heavy ion reactions, at the Tandem and Cyclotron ALICE in Orsay, SARA (Grenoble), Heidelberg, Texas A& M, GANIL, developing macroscopical models for their theoretical interpretation .
- 1980–1981 **Post-doc**, *Technische Universität*, München, Germany.  
Radioactivity measurements in the group of Prof. H. Morinaga.

#### Academical activity

- Regular supervision of diploma and master students, member of PhD committees, PhD Thesis supervisor.
  - A. Dbeyssi- PhD, 27-IX-2013- presently Helmholtz Junior Excellence Fellow, Mainz.
  - C. Adamuscin (Saclay, 2006-2007, Bratislava 2008), (co-supervisor) - presently staff at the Physics Department of the Slovak Academy of Sciences, Bratislava.
  - V. Ladygin (post-doc Saturne, 1995-1997) - presently Staff Dubna JINR-VBLHE, responsible of a joint experiment CBM-Nuclotron.
- Teaching
  - Lectures in frame of PhD schools in Ferrara (2011), Orsay (2010), Catania (2004).
  - Teacher assistant - Quantum and Statistical Mechanics, Université Paris-Sud, Orsay, France (1993-1995) and Numerical Analysis, Faculty of Engineering, Padova, Italy(1979-1980).

#### Nominations, Membership

- 2012-2015 **Member**, *Wissenschaftlicher Beirat*, GSI.  
Participation to the Scientific Council, project evaluation, consulting.
- 2011-2013 **Evaluator**, *European Agencies*.  
Evaluator for the European programme 'FP7-People' (2013), European Commission, (Bruxelles) and for research proposals of the Italian INFN and of the Swiss FNS.
- 2009-2012 **Chair**, *Programme Advisory Committees for Particle Physics*, JINR, Dubna, Russia.  
Member since 1999, this Committee reviews the particle physics projects of the Joint Institute, inland and abroad, and advises the Directorate.
- 2008-2015 **Convener**, *Groupement de Recherche 'GDR-PH-QCD'*, France.  
Organisation of meetings and analysis for the *Groupe II: scattering and annihilation reactions*.
- 1998-present **Member**, *International Advisory Committees*.  
Organisation and advice for several (recurrent) international conferences and events: *International Seminar on High Energy Physics Problems*, Dubna, (Russia), *International Conference on Nuclear Reaction Mechanisms* Varenna, Italy, *Permanent PhD School 'Nicolo Cabeo'*, Ferrara, *International Workshop on  $e^+e^-$  collisions from Phi to Psi*, Frascati-Beijing-Novosibirsk, main organiser of the *Workshop on Scattering and annihilation processes*, at ECT\*, Trento, Italy, February 18/22, 2013.
- 2008-present **Leader**, *Research programs*, France.  
Responsible of bilateral agreement Theme 09-85 on *Time-like Nucleon Form Factors*, JINR (Dubna) and IN2P3; Cooperation agreement PICS-5168 on *Electromagnetic hadron form factors, radiative corrections and hadron structure*, French CNRS and Ukrainian NSC-KFTI (Kharkov).
- 2011-2012 **Chair**, *PANDA Speakers' Committee*, GSI.  
Vice-Chair 2011 and Chair 2012, this committee suggests, scrutinizes and classifies the talks of the collaborations in the world conferences.

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- 2004-2008 **Elected member**, *CNRS Committee*, Paris, France.  
Evaluation of the laboratories and the staff, recruitment for the Section 'Nuclear, Particle Physics and Astrophysics.
- 1991-1997 **Scientific Coordinator**, *Laboratoire National Saturne*, Saclay, France.  
Member of the *Comité de Direction*, *Comité des Expériences*, *Conseil Scientifique*, *User's bureau*, editor of the internal magazine *En bref de Saturne*, and of the *Annual Report*.

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## Awards

- 2020 First Prize of JINR for the development of polarimetry within the ALPOM2 collaboration.
- 2011 Prize from International Academical NAUKA Interperiodica for a series of articles
- 2004 Prize for the best contribution at the XC meeting of the Italian Physical Society
- 2003 Honorary Diploma of JINR, Russia

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## Languages

Italian	<b>Mother-tongue</b>	
French, English	<b>Very good</b>	<i>Written and spoken</i>
Russian	<b>Intermediate</b>	<i>Conversation fluent</i>
German, Swedish	<b>Intermediate</b>	<i>Grammar and basic sentences</i>

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## Education

- 15-6-1988 **Thèse d'Etat**, *Université Paris-Sud*, Orsay, France.  
Title *One-nucleon transfer reactions*  
Supervisor Professor M. Mermaz  
Description Report on an experiment at GANIL which showed evidence of a change of reaction mechanism in transfer reactions at 30 MeV/A.
- 1975-1979 **Corso di Laurea in Fisica**, *Università degli Studi*, Padova, Italy.  
8-XI-1979 Tesi di Laurea: 110/110 with honors  
Title *Deep-inelastic heavy-ion reactions*  
Supervisor Professor R.A. Ricci  
Description First report in Italy on heavy ion deep inelastic reactions, in view of the new Tandem accelerator of Legnaro National Laboratory. It includes participation and analysis of an experiment at the Orsay TANDEM accelerator and compilation of the world data.

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