

**Personal information:**

Family name, first name: **GABRIELLI Emidio**  
Researcher identifier: [orcid.org/0000-0002-0637-5124](https://orcid.org/0000-0002-0637-5124)  
Nationality: Italian

**Education:**

1991 **PhD** in Theoretical Physics at Rome I University, Italy  
supervisor: Prof. Giancarlo Rossi  
1986 **Master** (Laurea) in Theoretical Physics at Rome I University, Italy  
supervisor: Prof. Guido Altarelli

**Current position:**

1 Nov 2018 Associate Professor, Department of Physics, University of Trieste, Italy

**Previous positions:**

2012 - 2018 Assistant Professor, Department of Physics, University of Trieste, Italy  
2011 - 2014 Senior Research Scientist, National Institute of Chemical Physics and  
Biophysics, Tallinn, Estonia (on leave of absence from UNITS (2012-2014))  
2008 - 2011 Visiting Scientist, TH Division, CERN, Switzerland  
2000 - 2007 Senior Research Scientist, Helsinki Institute of Physics, Finland  
1997 - 2000 Postdoc, Dept. of Physics, University Autonoma of Madrid, Spain  
1996 - 1997 Postdoc, Dept. of Physics, University of Notre-Dame, USA  
1993 - 1995 Postdoc, Dept. of Physics, University of Rome I, Italy  
1992 - 1993 Research Fellow (Della Riccia Foundation and INFN), TH-Division,  
CERN, Switzerland

**Short visiting positions:**

2007 Visiting Prof., Dept. of Physics, Louvain-La-Neuve University, Belgium  
2001 - 2002 Corresponding Scientific Associate, TH Division, CERN

**Academic Qualifications:**

2017 - 2023 Habilitation to Full Professor, Theoretical Physics, sector 02/A2, Italy  
2014 - 2018 Habilitation to Full Professor, Particle Physics, section 29, France  
2007 Habilitation to Lecturer in Finland

**Research Grants achieved as Principal Investigator:**

Period: 2011-2014  
Funding source: Estonian Science Foundation, Mobilitas Program  
Institution: NICPB, Tallinn, Estonia  
Grant amount: 544,000 Eur

**Teaching activities:**

2019	Master course (annual) at the University of Trieste Title: <i>Symmetries and Fundamental Interactions</i> (48 hours)
2018-2019	Master course (annual) at the University of Trieste Title: <i>Dynamics of Electroweak and Strong Interactions</i> (48 hours)
2018	Master course at the University of Trieste Title: <i>Quantum Field Theory I</i> (48 hours)
2014-2017	Master course (annual) at the University of Trieste Title: <i>Dynamics of Elementary Particles</i> (48 hours)
2007	PhD course at the University of Louvain-la-Neuve Title: <i>FCNC processes and CP violating phenomena</i> (12 hours)
2006	PhD course at the University of Helsinki Title: <i>FCNC processes and CP violating phenomena</i> (28 hours)
2005	PhD course at the University of Helsinki Title: <i>Diffraction Physics at the LHC and Top Physics</i> (10 hours)
2002-2003	PhD course (annual) at the University of Helsinki Title: <i>Phenomenology of Electro-Weak and Strong Interactions, Standard Model and beyond</i> (30 hours)
1999	PhD course at the University Autonoma of Madrid Title: <i>Phenomenology of weak and strong interactions</i> (30 hours)

**Supervision of Thesis:**

2014-2018	8 Master + 1 Bachelor students, Trieste University, Dip. di Fisica, Italy
2011-2015	1 PhD student at Tartu University, Dept. of Physics, Estonia
2005-2007	co-supervision 1 PhD student at Helsinki Institute of Physics, Finland

**Institutional responsibilities:**

2012-present	Faculty member, Physics Department, Trieste University, Italy
2014-present	Member of “Consiglio di Laurea Magistrale” in Physics, Trieste University

**Referee of International Scientific Journals:**

since 2002	Nuclear Physics B, Physics Letters B
since 2004	Physical Review D
since 2007	Physical Review Letters
since 2012	International Journal of High Energy Physics
since 2015	Classical and Quantum Gravity, Journal of Physics G

**Organization of scientific meetings:**

2018	Organizer of <i>PACTS 2018: Particle, Astroparticle and Cosmology</i> Tallinn Symposium, 18-19 June, Tallinn, Estonia
2017	Chair of the Conference <i>IFAE 2017</i> , 19-21 April, Trieste, Italy
2007	Convener of the Conference <i>ILC Physics in Florence</i> , 12-14 September, Arcetri (Florence), Italy

## Research Statement

I work as a theorist at the experimental frontiers of fundamental physics. My research activity has been performed with no breaks since 1986. I have been working on different sectors of high energy physics. I started my career, as student, working on the phenomenology of high energy colliders under the guidance of my supervisor Prof. Guido Altarelli at the University of Rome<sup>1</sup>. After this period, during my PhD, I extended my researches to the field of quantum chromo-dynamics (QCD) on the lattice, where I achieved important results concerning the computation of renormalization constants relevant for the QCD predictions of low-energy observables in the Flavor physics, see Refs. [3,5,6]. After this period, I returned to perform my research activity in the area of particle physics phenomenology, giving relevant contributions in various sectors, in particular:

- low energy implications of supersymmetric models for the Flavor physics and CP violating phenomena (see Refs. [11,12,13])
- collider physics, in particular in Higgs boson physics and top-quark physics;
- phenomenology of gravity models in large extra-dimensions;
- astro-particle physics, in particular SUSY dark matter searches, and axion physics.

Since 2010, with the beginning of the LHC experimental program, I have been focussing my researches on the phenomenological implications of new physics scenarios at the LHC, in particular on Higgs boson physics, top-quark physics, and low energy effective field theories for the Flavor physics. Among the main results obtained in this last period, to mention the impact of the work in Ref.[41], concerning the recent measurements of the main Higgs boson decay into a pair of bottom quarks. In this work, the production of the Higgs boson in association with a photon in vector boson fusion was proposed as an efficient tool to increase the sensitivity of signal over background at the LHC, for the measurement of the Higgs boson decay into this channel. The main idea relies on the fact that the presence of an associated photon can suppress the gluon-rich dominant non-resonant  $bbjj$  background, further increasing the sensitivity to the VBF final state ( see ATLAS, Phys. Rev. D98 (2018) 052003 for more details).

The discovery of the Higgs boson at the LHC in 2012 prompted my interests in developing a new paradigm for the origin of Flavor – which relies on the existence of a Dark sector beyond the Standard Model – that could pave the way to the construction of alternative models for both the origin of Flavor and Dark Matter. A rich new phenomenology is predicted that can be tested at the LHC and future colliders, see Refs. [57,61,66,68,69-79,1a]. At moment I am focussing my research activity on the phenomenological implications of Dark sector scenarios in collider physics, Flavor physics and dark matter search experiments.

**Research records:**

I have published so far about 80 peer-reviewed articles and 30 conference/workshop proceedings in the field of high energy physics, low energy physics, astro-particle physics, and quantum field theory. My research papers are published on high-level peer-reviewed journals. According to the InSPIRES database <http://inspirehep.net/>, my papers received so far about 4862 citations in total, with an average of about 52 citation per peer-reviewed article. I am the author of a renowned paper on phenomenological aspects of Supersymmetry (Ref.[13]), that has collected so far more than 1300 citations. Moreover, I have 4 papers with 100-200 citations, and 10 papers with 50-100 citations. My  $h$ -index is 32 on all papers.

## Complete list of Publications

### Peer-reviewed scientific articles

- [1] title: **The production of weak intermediate bosons in e-p reactions**  
journal: Modern Physics Letters **A**, Vol.1,No.8 (1986) 465
- [2] title: **Quark-antiquark pair production via  $\gamma W$  fusion at high energy  $e^+e^-$  colliders**  
co-authors: M. Ciuchini, E. Franco  
journal: Z. Phys. **C 47** (1990) 577
- [3] title: **Renormalization of lattice two fermion operators with improved nearest neighbour action**  
co-authors: G. Heatlie, G. Martinelli, C. Pittori, C.T. Sachrajda  
journal: Nucl. Phys. **B362** (1991),475
- [4] title: **Extended pure Yang Mills gauge theories with scalar and tensor gauge fields**  
journal: Phys. Lett. **B258** (1991) 151
- [5] title: **Four-Fermion Operators with improved nearest-neighbour action**  
co-authors: R. Frezzotti, C. Pittori, G.C. Rossi  
journal: Nucl. Phys. **B373** (1992) 781
- [6] title: **New improved operators: a convenient redefinition**  
co-authors: A. Borrelli, R. Frezzotti, C. Pittori  
journal: Nucl. Phys. **B409** (1993) 392
- [7] title: **The decays  $K^+ \rightarrow e^+\nu_e\gamma$  and  $K^+ \rightarrow \mu^+\nu_\mu\gamma$ , and tensorial coupling in the effective weak hamiltonian**  
journal: Phys. Lett. **B301** (1993) 409
- [8] title: **Instanton effects in the light-quark masses determination from QCD sum rules**  
co-author: P. Nason  
journal: Phys. Lett. **B313** (1993) 430
- [9] title: **Higgs production in association with a vector boson pair at future  $e^+e^-$  colliders**  
co-authors: M. Baillargeon, F. Boudjema, F. Coupyers, B. Mele  
journal: Nucl. Phys. **B424** (1994) 343
- [10] title: **The relevance of the dipole penguin operators in  $\epsilon'/\epsilon$**   
co-authors: S. Bertolini, M. Fabbrichesi  
journal: Phys. Lett. **B327** (1994) 136
- [11] title: **Supersymmetric corrections to  $\epsilon$  and  $\epsilon'/\epsilon$  at the leading order in QCD and QED**  
co-author: G.F. Giudice  
journal: Nucl. Phys. **B433** (1995) 3
- [12] title: **Flavour changing neutral currents and CP violating processes in generalized supersymmetric theories**  
co-authors: A. Masiero, L. Silvestrini  
journal: Phys. Lett.**B374** (1996) 80
- [13] title: **A complete analysis of FCNC and CP constraints in general susy extensions of the standard model**  
co-authors: F. Gabbiani, A. Masiero, L. Silvestrini  
journal: Nucl. Phys. **B477** (1996) 321

- [14] title: **The chromomagnetic dipole operator and the B semileptonic branching ratio**  
co-authors: M. Ciuchini, G.F. Giudice  
journal: Phys. Lett. **B388** (1996) 353
- [15] title:  **$Z\gamma H$  vertex effects in Higgs production at future  $e\gamma$  linear colliders.**  
co-authors: V.A. Ilyin, B. Mele  
journal: Phys. Rev. **D56** (1997) 5945
- [16] title: **Low-energy signals for a minimal gauge mediated model.**  
co-author: U. Sarid  
journal: Phys. Rev. Lett. **79** (1997) 4752
- [17] title: **Imminent phenomenology of a minimal gauge-mediated model.**  
co-author: U. Sarid  
journal: Phys. Rev **D58** (1998) 115003
- [18] title: **Looking for anomalous  $\gamma\gamma H$  and  $Z\gamma H$  couplings effects at future linear colliders.**  
co-authors: V.A. Ilyin, B. Mele  
journal: Phys. Rev **D60** (1999) 113005
- [19] title: **Quenched Supersymmetry**  
co-authors: A. Donini, B. Gavela  
journal: Nucl. Phys. **B546** (1999) 119
- [20] title: **N=1 Supersymmetric Yang-Mills on the lattice at strong coupling**  
co-authors: A. Gonzalez-Arroyo, C. Pena  
journal: Int. J. Mod. Phys. **A15** (2000) 553
- [21] title: **Extended Yang-Mills Theories in Euclidean space with higher spin fields.**  
journal: Annals Phys. **287** (2001) 229
- [22] title: **Model independent constraints on leptoquarks from rare muon and tau lepton processes**  
journal: Phys. Rev. **D62** (2000) 055009
- [23] title: **The  $b \rightarrow s\gamma$  decay in SUSY models with nonuniversal A terms**  
co-authors: S. Khalil, E. Torrente-Lujan  
journal: Nucl. Phys. **B594** (2001) 3
- [24] title: **Initial scales, supersymmetric Dark Matter and variations of neutralino nucleon cross sections**  
co-authors: S. Khalil, C. Munoz, E. Torrente-Lujan  
journal: Phys. Rev. **D63** (2001) 025008
- [25] title: **Determination of the string scale in D-brane scenarios and Dark Matter implications**  
co-authors: D.G. Cerdeno, S. Khalil, C. Munoz, E. Torrente-Lujan  
journal: Nucl. Phys. **B603** (2001) 231
- [26] title: **Muon anomalous magnetic moment in supersymmetric models with intermediate scale**  
co-authors: D.G. Cerdeño, S. Khalil, C. Muñoz, E. Torrente-Lujan  
journal: Phys. Rev. **D64** (2001) 093012
- [27] title: **g-2 of the muon in SUSY models with Gauge multiplets in the Bulk of Extra-dimensions**  
co-authors: K. Enqvist, K. Huitu  
journal: Phys. Lett. **B512** (2001) 107

- [28] title: **Vacuum stability bounds in anomaly and gaugino mediated SUSY breaking models**  
co-authors: K. Huitu, S. Roy  
journal: Phys. Rev. **D65** (2002) 075005
- [29] title: **On the  $B \rightarrow X_s \rightarrow l^+l^-$  decays in general supersymmetric models**  
co-author: S. Khalil  
journal: Phys. Lett. **B530** (2002) 133
- [30] title: **Gravitational decays of heavy particles in large extra dimensions**  
co-author: B. Mele  
journal: Nucl. Phys. **B647** (2002) 319
- [31] title: **Constraining supersymmetric models from  $B_d - \bar{B}_d$  mixing and the  $B \rightarrow J/\Psi K_S$  asymmetry**  
co-author: S. Khalil  
journal: Phys. Rev. **D67** (2003) 015008
- [32] title: **Virtual graviton exchanges at the Z pole in large extra dimensions**  
co-authors: A. Datta, B. Mele  
journal: Phys. Lett. **B552** (2003) 237
- [33] title: **Large extra dimension effects in Higgs boson production at linear colliders and Higgs factories**  
co-authors: A. Datta, B. Mele  
journal: JHEP **0310:003** (2003)
- [34] title: **Neutralino Nucleon cross section and charge and color breaking constraints**  
co-authors: D.G. Cerdeño, M.E. Gomez, C. Muñoz, E. Torrente-Lujan  
journal: JHEP **0306:030** (2003)
- [35] title: **Chargino contribution to the CP asymmetry in  $B \rightarrow \Phi K_S$  decay**  
co-authors: D. Chakraverty, K. Huitu, S. Khalil  
journal: Phys. Rev. **D68** (2003) 095004
- [36] title: **Violation of angular momentum selection rules in quantum gravity**  
co-authors: A. Datta, B. Mele  
journal: Phys. Lett. **B579** (2004) 189
- [37] title: **Comparative study of CP asymmetries in supersymmetric models**  
co-authors: K. Huitu, S. Khalil  
journal: Nucl. Phys. **B710** (2005) 139
- [38] title: **Light mesons and muon radiative decays and photon polarization asymmetry**  
co-author: Luca Trentadue  
journal: Nucl. Phys. **B792** (2008) 48
- [39] title: **Photon propagation in magnetic and electric fields with scalar/pseudoscalar couplings: a new look**  
co-authors: K. Huitu, S. Roy  
journal: Phys. Rev. **D74** (2006) 073002
- [40] title: **Phenomenological viability of neutralino dark matter in the Next-to-Minimal Supersymmetric Standard Model**  
co-authors: D.G. Cerdeño, D.E. López-Fogliani, C. Muñoz, A.M. Teixeira  
journal: JCAP06 (2007) 008
- [41] title: **Higgs boson production in association with a photon in vector boson fusion at LHC**  
co-authors: F. Maltoni, B. Mele, M. Moretti, F. Piccinini, R. Pittau,  
journal: Nucl. Phys. **B781** (2007) 64

- [42] title: **Higgs boson plus photon production at the LHC: a clean probe of the b-quark parton densities**  
co-authors: B. Mele, J. Rathsman  
journal: Phys. Rev. **D77** (2008) 015007
- [43] title: **On the dynamical breaking of chiral symmetry: A New mechanism**  
journal: Phys. Rev. **D77** (2008) 055020
- [44] title: **Flavor Changing Fermion-Graviton Vertices**  
co-authors: G. Degrassi, L. Trentadue  
journal: Phys. Rev. **D79** (2009) 053004
- [45] title: **Testing Effective Yukawa Couplings in Higgs Searches at the Tevatron and LHC**  
co-author: B. Mele  
journal: Phys. Rev. **D82** (2010) 113014
- [46] title: **Effective Yukawa couplings and flavor-changing Higgs boson decays at linear colliders**  
co-author: B. Mele  
journal: Phys. Rev. **D83** (2011) 073009
- [47] title: **Effective axial-vector coupling of gluon as an explanation to the top quark asymmetry**  
co-author: M. Raidal  
journal: Phys. Rev. **D84** (2011) 054017
- [48] title: **Implications of the effective axial-vector coupling of gluon on top-quark charge asymmetry at the LHC**  
co-authors: A. Racioppi, M. Raidal  
journal: Phys. Rev. **D85** (2012) 074021
- [49] title: **Has a fermiophobic Higgs boson been detected at the LHC ?**  
co-authors: B. Mele, M. Raidal  
journal: Phys. Lett. **B716** (2012) 322
- [50] title: **Fermiophobic Higgs boson and supersymmetry**  
co-authors: K. Kannike, B. Mele, A. Racioppi, M. Raidal  
journal: Phys. Rev. **D86** (2012) 055014
- [51] title: **Single top and Higgs associated production as a probe of the Htt coupling sign at**  
co-authors: S. Biswas, B. Mele  
journal: JHEP **1301** (2013) 088
- [52] title: **Implications of effective axial-vector coupling of gluon for  $t\bar{t}$  spin polarizations at the LHC**  
co-authors: A. Racioppi, M. Raidal, H. Veermae  
journal: Phys. Rev. **D87** (2013) 054001
- [53] title: **One loop Standard Model corrections to flavor diagonal fermion-graviton vertices**  
co-authors: C. Coriano, L. Delle Rose, L. Trentadue  
journal: Phys. Rev. **D87** (2013) 054020
- [54] title: **Mass Corrections to Flavor-Changing Fermion-Graviton Vertices in the Standard Model**  
co-authors: C. Coriano, L. Delle Rose, L. Trentadue  
journal: Phys. Rev. **D88** (2013) 085008
- [55] title: **Direct constraints on the top-Higgs coupling from the 8 TeV LHC data**  
co-authors: S. Biswas, F. Margaroli, B. Mele  
journal: JHEP **07** (2013) 073



- [56] title: **Towards completing the Standard Model: Vacuum Stability, EWSB and Dark Matter**  
co-authors: M. Heikinheimo, K. Kannike, A. Racioppi, M. Raidal, C. Spethmann  
journal: Phys Rev **D89** (2014) 015017
- [57] title: **Exponentially spread dynamical Yukawa couplings from non-perturbative chiral symmetry breaking in the dark sector**  
co-author: M. Raidal  
journal: Phys Rev **D89** (2014) 015008
- [58] title: **Anomalous Higgs-boson coupling effects in HWW production at the LHC**  
co-authors: M. Heikinheimo, L. Marzola, B. Mele, C. Spethmann, H. Veermae  
journal: Phys Rev **D89** (2014) 053012
- [59] title: **Fermion scattering in a gravitational background: Electroweak corrections and Flavour transitions**  
co-authors: C. Coriano, L. Delle Rose, L. Trentadue  
journal: JHEP **1403** (2014) 136
- [60] title: **Enhancing the  $t\bar{t}H$  signal through top-quark spin polarization effects at the LHC**  
co-authors: S. Biswas, R. Frederix, B. Mele  
journal: JHEP **1407** (2014) 020
- [61] title: **Dark photons and resonant monophoton signatures in Higgs boson decays at the LHC**  
co-authors: M. Heikinheimo, B. Mele, M. Raidal  
journal: Phys. Rev. D **90** (2014) 055032
- [62] title: **Higgs-boson production in association with a Dark Photon in  $e^-e^-$  collisions**  
co-authors: S. Biswas, M. Heikinheimo, B. Mele  
journal: JHEP **1506** (2015) 102
- [63] title: **Dark matter and spin-1 milli-charged particles**  
co-authors: L. Marzola, M. Raidal, H. Veermäe  
journal: JHEP **1508** (2015) 150
- [64] title: **A SUSY Inspired Simplified Model for the 750 GeV Diphoton Excess**  
co-authors: K. Kannike, B. Mele, M. Raidal, C. Spethmann, H. Veermäe  
journal: Phys. Lett. **B756** (2016) 36
- [65] title: **Asking for an extra photon in Higgs production at the LHC and beyond**  
co-authors: B. Mele, F. Piccinini, R. Pittau  
journal: JHEP **1607** (2016) 003
- [66] title: **Dark-Photon searches via Higgs-boson production at the LHC**  
co-authors: S. Biswas, M. Heikinheimo, B. Mele  
journal: Phys. Rev. D **93** (2016) 093011
- [67] title: **Polarization observables for millicharged particles in photon collisions**  
co-authors: L. Marzola, E. Milotti, H. Veermäe  
journal: Phys. Rev. D **94** (2016) 095014, Erratum: Phys.Rev. D **95** (2017) 119903
- [68] title: **FCNC decays of standard model fermions into a dark photon**  
co-authors: B. Mele, M. Raidal, E. Venturini  
journal: Phys. Rev. D **94** (2016) 115013
- [69] title: **Radiative Yukawa Couplings in the Simplest Left-Right Symmetric Model**  
co-authors: L. Marzola, M. Raidal  
journal: Phys. Rev. D **95** (2017) 035005

- [70] title: **Dark-photon searches via  $ZH$  production at  $e^+e^-$  colliders**  
co-authors: S. Biswas, M. Heikinheimo, B. Mele  
journal: Phys. Rev. D **96** (2017) 055012
- [71] title: **Hunting down massless dark photons in kaon physics**  
co-authors: M. Fabbrichesi, B. Mele  
journal: Phys. Rev. Lett. **119** (2017) 031801
- [72] title: **Z boson decay into light and darkness**  
co-authors: M. Fabbrichesi, B. Mele  
journal: Phys. Rev. Lett. **120** (2018) 171803
- [73] title: **Neutral Hadrons Disappearing into the Darkness**  
co-authors: D. Balducci, M. Fabbrichesi  
journal: Phys. Rev. **D98** (2018) 035049
- [74] title: **Left-right Supersymmetry as the origin of flavor structure**  
co-authors: S. Fraser, C. Marzo, L. Marzola, M. Raidal  
journal: Phys. Rev. D **100** (2019) 115002
- [75] titolo: **Probing axion-like particle portals at future  $e^+e^-$  colliders**  
co-authors: S. Biswas, A. Chatterjee, B. Mele  
journal: Phys. Rev. D **100** (2019) 115040
- [76] titolo: **Dark-sector physics in the search for the rare decays  $K^+ \rightarrow \pi^+ \bar{\nu} \nu$  and  $K_L \rightarrow \pi^0 \bar{\nu} \nu$**   
co-authors: M. Fabbrichesi  
journal: Eur. Phys. J. C **80** (2020) 6, 532
- [77] titolo: **Dark origin of the quark flavor hierarchy and mixing**  
co-authors: C. Marzo, L. Marzola, K. Müürsepp  
journal: Phys. Rev. D **101** (2020) 075019
- [78] titolo: **Untangling the spin of a dark boson in  $Z$  decays**  
co-authors: A. Comelato  
journal: Phys. Rev. D **102** (2020) 015028
- [79] titolo:  **$Z$ -boson decays into an invisible dark photon at the LHC, HL-LHC and future lepton colliders**  
co-authors: M. Cobal, C. De Dominicis, M. Fabbrichesi(INFN, Trieste), J. Magro, B. Mele, G. Panizzo  
journal: Phys. Rev. D **102** (2020) 035027

## Recent articles under peer-review

- [1a] title: **Magnetic-dipole corrections to  $R_K$  and  $R_K^*$  in the Standard Model and Dark Photon scenarios**  
co-authors: M. Palmiotta  
e-Print: 1910.14385 [hep-ph]
- [2a] title: **The Physics of the Dark Photon - A Primer**  
co-authors: M. Fabbrichesi, G. Lanfranchi  
type of article: book (submitted to SpringerBriefs, Springer Nature)  
e-Print: 2005.01515 [hep-ph]

## Articles in Conference proceedings and Workshops

- [1c] title: **Single weak gauge boson production at CLIC**  
conferenza: Workshop on Physics at Future Accelerators, 7-13 Jan 1987. *La Thuile, Italy and Geneva, Switzerland*  
journal: CERN-87-07 Vol. II, 1
- [2c] title: **Improved computation in lattice QCD**  
co-authors: G. Heatlie, G. Martinelli, C. Pittori, G.C. Rossi, C.T. Sachrajda, A. Vladikas:  
conferenza: LATTICE 90: International Conference on Lattice Field Theory, 8-12 Oct 1990. Tallahassee, Florida, US.  
journal: Nucl. Phys. Proc. Suppl. **20** (1991) 448-454.
- [3c] title: **The charged K decays and tensorial coupling in the effective weak hamiltonian**  
conferenza: EuroDAΦNE collaboration meeting, Frascati, Italy, april 19-23, 1993.  
journal: **LNF-93/053**
- [4c] title: **Production of a Higgs with Two Gauge Bosons**  
co-authors: F. Boudjema, M. Baillargeon, F. Cuypers, B. Mele:  
conferenza: 2<sup>nd</sup> Workshop on  $e^+e^-$  Collisions at 500 GeV. *The Physics Potential*, Munich, Annecy, Hamburg, 20 Nov 1992 to 3 Apr, 1993  
journal: Muenchen/Annecy/Hamburg 1992-93,  $e^+e^-$  collisions at 500-GeV, pt. C 35-44, DESY report 1994, ed. by P.M.Zerwas.
- [5c] title: **Constraints on supersymmetry from FCNC and CP violation**  
co-authors: A. Masiero, L. Silvestrini  
conferenza: Workshop SUSY 95, Ecole Polytechnique, Palaiseau, Jul 15-19, 1995.  
journal: Palaiseau 1995, SUSY 95, 83-95. arXiv: hep-ph/9510215
- [6c] title: **Standard Model Processes**  
co-authors: F. Boudjema *et al.*):  
conferenza: CERN Workshop on LEP2 Physics, 2-3 Feb 1995. Geneva, Switzerland  
journal: Physics at LEP2, Vol. 1, 207, **CERN Report 1996**. arXiv: hep-ph/9601224
- [7c] title: **Measuring  $Z\gamma H$  vertex effects at  $e\gamma$  linear colliders.**  
co-authors: V.A. Ilyin, B. Mele:  
conferenza: Joint ECFA / DESY Study: Physics and Detectors for a Linear Collider, Feb. to Nov. 1996  
journal: DESY Report DESY-97-123E, Edited by R. Settles, Hamburg DESY 1997. arXiv: hep-ph/9707370
- [8c] title:  **$Z\gamma H$  vertex at future colliders**  
co-authors: V.A. Ilyin, B. Mele:  
conferenza: 5th Int. Conf. on Physics Beyond the Standard Model, Balholm, Norway, 29 Apr - 4 May 1997  
journal: AIP Conf. Proc. 415 (1997) no.1, 506-511. arXiv: hep-ph/9709351
- [9c] title: **Testing the  $Z\gamma H$  vertex at linear colliders for intermediate Higgs masses**  
co-authors: V.A. Ilyin, B. Mele:  
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