

Dr. Costas G. PAPADOPOULOS

Curriculum Vitae

Positions

Current:

February 2008 - today NCSR 'Democritos', Director of Research.

Previous:

March 2013 - August 2013 ETH Visiting Researcher.
June 2012 - February 2013 CERN Scientific Associate.
September 1999 - February 2008 NCSR 'Democritos', Senior Researcher.
May, August - September 2003 Visiting Professor, Durham University
August 2002 - November 2003 CERN Scientific Associate and Marie Curie Fellow, cat 40.
June 2001 - September 2001 CERN corresponding Fellow.
June 1998 - September 1998 CERN corresponding Fellow.
May 1996 - August 1999 NCSR 'Democritos', Researcher.
May 1994 - May 1996 Research Associate, Physics Department, Durham University, United Kingdom and unpaid Associate, Theory Division, CERN.
March 1992-April 1994 Fellow at CERN Theory Division, Geneva.
1989-1992 Post-doctoral position in NCSR 'Democritos', Athens.
1985-1989 Teaching assistant in University of Athens.

Education

1973-1979 Ιωνίδειος Πρότυπος Σχολή Πειραιώς.
1979-1984 B.A. (Πτυχίο) of Physics, University of Athens.
1984-1985 Post-graduate courses in 'DEA de Physique Theorique', Ecole Normale, Paris.
1985-1986 Post-graduate courses in NCSR 'Demokritos', Athens.
1989 PhD in Theoretical Physics, University of Athens.

Research Experience and Expertise

- My research work covers a large area of theoretical high-energy physics with emphasis to particle physics phenomenology. I am the author of more than 110 publications, in International refereed Journals and conference proceedings, including CERN Yellow Reports. According to the SLAC-SPIRES data base there are more than 6,000 citations. Major achievements include the development of recursive equation approach to scattering amplitudes calculation and the resulting HELAC-PHEGAS computational system, the establishment of the OPP method to calculate virtual one-loop corrections along with the HELAC-NLO framework for arbitrary NLO QCD calculations, and the introduction of the Fermion-loop scheme for the consistent description of scattering involving unstable particles in perturbation theory.
- I have participated in international working groups (see also my publication list) set up either to study the physics potential or to assist, from the theoretical part, the physics analysis of large scale experiments: LEP200, LHC and ILC (the International Linear Collider project).
- I have developed the underlying theoretical and methodological approaches as well as the computer programmes for a number of computational tools, including ERATO, ERATO-LQ, HAAG, and notably the HELAC-PHEGAS system. These novel methods and tools allow the detailed study of arbitrary scattering process and played, play and will play a crucial role in the physics analysis of large scale experiments like LEP, LHC and ILC.
- I have participated, as scientist in charge, in many research projects funded by the European Union and the Greek General Secretariat for Research and Technology. I have also coordinated one of the largest collaboration on theoretical particle physics in Europe, the *HEPTOOLS Network*, that includes 17 research teams, from 16 Research centers and 47 Universities worldwide.

Research Programs

I participate (or participated) in the following programs:

1. **Excellence Project**, 'Higher Order Calculations and Tools for High Energy Colliders', HOCTools, acting as scientist in charge, 2012-2015.
2. **ΚΡΗΘΙΣ Project**, 'Εξερευνώντας το Ορατό και Αόρατο Σύμπαν με επιταχυντές και καινοτόμους ανιχνευτές', ΟΡΑΣΤ, acting as member of the main research team, 2012-2015.
3. **Thales Project**, 'BEYOND THE STANDARD MODEL: Theoretical Elementary Particle Physics and Cosmology under the light of LHC', BSM-LHC, acting as member of the main research team, 2012-2015.
4. **Thales Project**, 'SEARCHES FOR NEW PHYSICS AT TEVATRON, LHC AND BEYOND', DIBOSON, acting as member of the main research team, 2012-2015.
5. **Thales Project**, 'Development and Applications of Novel Instrumentation and Experimental Methods in Astroparticle Physics', ASTRONEU, acting as member of the main research team, 2012-2015.
6. **Marie Curie Research Training Network**, 'Tools and Precision Calculations for Physics Discoveries at Colliders', HEPTOOLS, acting as Network Coordinator, 2006-2010.
7. **Marie Curie Host Fellowships for Transfer of Knowledge (TOK)**, 'Algorithms and Tools for multi-particle production and higher order corrections at high energy colliders', ALGOTOOLS, scientist in charge, 2005-2009.
8. General Secretariat for Research and Technology, **Poland-Greece bilateral**, 'Advanced computer techniques for theoretical calculations and development of simulation programs for high energy physics experiments', scientist in charge, 2004-2007.
9. EPAN, '**Participation of Greek teams in International Organizations**', Greece-CERN, NCSR-Demokritos, participant, 2004-2006.
10. General Secretariat for Research and Technology, programme: '**Research Excellence**', Physics at the LHC', participant, 2002-2004.
11. **Development Host Fellowships**, 'Multi-Particle Processes And Higher Order Corrections', scientist in charge, 2002-2006.
12. General Secretariat for Research and Technology, **PLATON: Franco-hellenic bilateral collaboration project**, participant, 2002-2004.
13. **Research Training Network**, 'Particle physics phenomenology at high energy colliders', coordinator of the Greek node, 2000-2005.
14. **Marie Curie Individual Fellowship**, 'Multi-Particle Processes At High Energy Colliders', fellow, 2002-2003.
15. NCSR 'Demokritos' program '**Demo-research**', scientist in charge, 1998.
16. **PENED-GGET**, E345, participant, 1996.
17. EEC Program, **Human Capital and Mobility**, participant, CHRXCT930319.
18. EEC Program, **Science**, participant, SC1-CT92-0792.
19. EEC Program, **Science**, participant, SC1-CT91-0729.
20. **British Council, Athens-Durham**, participant, 1991-1993.
21. Bilateral Program between Greece (NRCPS 'D') and Germany (DESY), participant.

Schools-Conferences-Workshops

- 1986 Paris-Meudon Colloquium on Superstrings, Paris.
- 1986 * 1st Congress of the Greek Society for the Study of High Energy Physics (GSSHEP), Athens.
- 1987 ICTP Spring School on Superstrings, Trieste, Italy.
- 1988 * 2nd Congress of GSSHEP, Athens.
- 1988 Les Houches School on 'Strings, Fields and Critical Phenomena', Les Houches, France.
- 1989 * 3rd Congress of GSSHEP, Athens.
- 1989 3rd Hellenic School on Elementary Particles, Corfou, Greece.
- 1990 * 4th Congress of GSSHEP, Athens.
- 1990 International School on Elementary Particle Physics, Ioannina, Greece.
- 1990 * ECFA Large Hadron Collider Workshop, Aachen, Germany.
- 1991 * 5th Congress of GSSHEP, Thessaloniki, Greece.
- 1992 * 6th Congress of GSSHEP, Athens, Greece.
- 1993 * 7th Congress of GSSHEP, Iraklion, Greece.
- 1993 * Workshop on future electron-positron colliders, Annecy, France.
- 1993 * Recontres de Moriond, Electroweak interactions and Unified theories, Les Arcs, France.
- 1994 * 8th Congress of GSSHEP, Athens, Greece.
- 1994 * LEP II Workshop, 1st meeting of Standard Model Group.
- 1995 * LEP II Workshop, 1st meeting of WWG couplings Group.
- 1995 * LEP II Workshop, 2nd meeting of WW Group.
- 1995 * LEP II Workshop, 2nd meeting of WWG couplings Group.
- 1995 * LEP II Workshop, 3d meeting of WW Group.
- 1995 * Next Linear Collider Workshop, April 4, CERN.
- 1995 * LEP II Workshop, 3d meeting of WWG couplings Group.
- 1995 * LEP II Workshop, 4th meeting of WW Group.
- 1996 * 10th Congress of GSSHEP, Ioannina, Greece.
- 1996 * Linear Collider Workshop, February, Hamburg, Germany.
- 1996 * Linear Collider Workshop, November, Hamburg, Germany.
- 1997 * Physics at LEP2, Oxford University, United Kingdom.
- 1997 * Joint Particle Phenomenology meeting, Chalkidiki, Greece.
- 1997 * XVIII int. symposium on lepton-photon interactions, Hamburg, Germany.
- 1997 * 2nd meeting on high-energy phenomenology (EEC network), September, Nijmegen, The Netherlands.
- 1998 12th GSSHEP Conference, Athens.
- 1998 LHC Workshop, CERN, Geneva, Switzerland.
- 1998 * Meeting of the DELPHI Working group on TGC measurements, Athens, Greece.
- 1999 LHC Workshop, CERN, Geneva, Switzerland.
- 1999 * MiniLEP2 Workshop, CERN, Geneva, Switzerland.
- 1999 WW99 International Workshop on WW physics at LEP2, Creta, Greece.
- 2000 * Padua Conference on the Linear Collider project.
- 2000 Investing in Europe's Human Research Potential, October 4-7, Crete, Heraklion.

- 2000 European Young Scientist Forum in the Pan-European Conference on Science and technology - Prospects for the 21st century, Gdansk, Poland, October 7-9.
- 2000 * VII International Workshop on Advanced Computing and Analysis Techniques in Physics Research, Fermilab, USA, October 16-20.
- 2001 * 'Physics at Colliders' network meeting, Granada, Spain, March 1-4.
- 2001 * CPP2001, Automatic Calculation for Future Colliders, November 28-30, 2001, Tokyo Metropolitan University, Japan.
- 2002 * 'Physics at Colliders' network meeting, April 9-11, 2002, Grey College, United Kingdom.
- 2003 * 'The 4th ECFA/DESY Workshop on Physics and Detectors for a 90-800 GeV Linear e+e Collider', 1-4 April at NIKHEF
- 2003 * 'CERN Workshop on Monte Carlo tools for the LHC' July 7 -Aug 1 2003.
- 2003 'Electroweak Radiative Corrections to Hadronic Observables at TeV Energies' 11th-15th September 2003 Grey College, University of Durham.
- 2003 * 'ECFA LC Workshop" Montpellier, France, 13-16 November.
- 2004 Annual meeting of the HSSHEP, Chios, 1-4 April.
- 2004 * Particle physics phenomenology at high energy colliders, final meeting of the European Union Network, Montpellier, France, September 26-27
- 2005 * 10th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 05), Zeuthen, Germany, 22-27 May 2005
- 2005 * XXIX International Conference of Theoretical Physics Ustron, 8-14 September 2005, Poland
- 2005 QMUL Workshop From Twistors to Amplitudes 3 - 5 November, Queen Mary, University of London
- 2006 * HEP2006: Recent Developments in High Energy Physics and Cosmology, April 13-16, 2006, Ioannina, Greece
- 2006 * DIS2006, XIV International Workshop on Deep Inelastic Scattering, 20/4/2006 - 24/4/2006, International Congress Center EPOCHAL Tsukuba, Japan. (*invited talk*)
- 2006 * Loops and Legs in Quantum Field Theory April 23 -28, 2006 Eisenach, Germany
- 2006 * MONTE CARLOS FOR THE LHC, Workshop on the tools for LHC event simulation, CERN, July 17-26, 2006.
- 2006 * HP² Workshop, 6-9 September, 2006, High Precision for Hard Processes at the LHC, ETH, Zurich, Switzerland. (*invited talk*)
- 2006 * International Linear Collider (ILC) Workshop (ILC-ECFA and GDE Joint Meeting) Valencia, 6-10 November 2006. (*invited talk*)
- 2007 * Cracow Epiphany Conference on Precision Physics and Monte Carlos for LHC, 4 - 6 January 2007, Cracow, Poland. (*invited talk*)
- 2007 * Physics at TEV Colliders, Les Houches, 11-29 June 2007. (*invited talk*)
- 2007 * 8th International Symposium on Radiative Corrections APPLICATION OF QUANTUM FIELD THEORY TO PHENOMENOLOGY Florence, Italy, October 1-5, 2007 . (*invited talk*)
- 2007 * The Galileo Galilei Institute for Theoretical Physics (GGI), Advancing Collider Physics: from Twistors to Monte Carlos, October 1-21, 2007 . (*invited talk*)
- 2008 * Loops and Legs 2008, April 20 -25, 2008 Sondershausen. (*invited talk*)
- 2008 * HEPTOOLS Training event, May 29 to may 30, Nijmegen, The Netherlands. (*invited lectures*)
- 2008 * TOOLS 2008, Tools for the New Physics and its Background, June 30th to July 4th at the Max-Planck-Institut fu"r Physik in Munich, Germany. (*invited talk*)

- 2008 * High Precision for Hard Processes at the LHC, 7-10 October, 2008, Buenos Aires, Argentina. *(invited talk)*
- 2009 * Computer Algebra and Particle Physics 2009, 29 March to 3 April 2009, DESY-ZEUTHEN, Germany. *(invited lectures)*
- 2009 * The 2009 Europhysics Conference on High Energy Physics 16-22 July 2009 Krakow, Poland. *(invited talk)*
- 2009 * HEPTOOLS: Third Annual Meeting 30/11-1/12 2009 HEPHY, Vienna. *(invited talk)*
- 2010 * MC4LHC readiness 29/3-1/4 2010 CERN, Geneva. *(invited talk)*
- 2010 * Loops and Legs in Quantum Field Theory 25/4-30/4 2010 Woerlitz, Germany. *(invited talk)*
- 2010 * Loopfest IX: Radiative Corrections for the LHC and Lepton Colliders 21/6-23/6 2010 Stony Brook, USA. *(invited talk)*
- 2010 * QCD at the LHC, 27 September - 1 October, Trento, Italy. *(invited talk)*
- 2010 * School and Workshops on the Standard Model and Beyond - Cosmology August 29 - September 5, 2010, Corfu, Greece *(invited talk)*
- 2011 * Heavy Particles at the LHC, 5-7 January 2011, ETH Zurich, CH. *(invited talk)*
- 2011 * The Harmony of Scattering Amplitudes, 13 June - 8 July 2011, KITP, University of California Santa Barbara, USA. *(invited talk)*
- 2011 The TH-LPCC Summer Institute on LHC Physics, August 1-7, 2011, CERN, CH.
- 2012 * "High Precision for Hard Processes" (HP2) September 4 - 7, 2012, Munich, Germany *(invited talk)*
- 2012 * Summer School and Workshop on the Standard Model and Beyond September 8 - 17, 2012, Corfu, Greece *(invited talk)*

where * means contribution by relevant work presentation.

Conference Organization

- 1994 Organizer of the 1st annual meeting on high energy phenomenology, 9-10 June, National Technical University of Athens, Athens.
- 1997 Convenor of the Trilinear Gauge Couplings Group of the Phenomenology Workshop on LEP2 Physics, 14-18 April, Physics Department, Oxford, UK.
- 1997 Organizer of the 2nd annual meeting on high energy phenomenology, 26-28 September, University of Nijmegen, The Netherlands.
- 2004 Organizer of the annual meeting of HSSHEP 1-4 April, University of Aegean, Greece.
- 2004 Meeting Of The European Network 'Physics At Colliders', 26-27 Sep 2004, Montpellier, France, Editor.
- 2006 Loops and Legs 2006, April 23 -28, 2006 Eisenach, Germany: Member of the International Programme Committee.
- 2007 HEPTools, Annual meeting, November, 26-27, 2007, Athens, Greece.
- 2008 Graduate School in Physics at Colliders, January, 2008, Torino, Italy.
- 2008 Loops and Legs 2008, April 20 -25, 2008 Sondershausen, Germany: Member of the International Programme Committee.
- 2009 HEPTOOLS, Second Annual meeting, 9-12 March 2009, Lisbon, Portugal: Coordinator
- 2009 Fourth Graduate School in Physics at Colliders On the eve of the LHC, 29/6-3/7 2009, Turin, Italy: International Advisory Board
- 2009 School and Workshops on the Standard Model and Beyond - Standard Cosmology August 31 - September 6, 2009: Member of the International Programme Committee.
- 2009 HEPTOOLS, Third Annual meeting, 30/11-1/12 2009, Vienna, Austria: Coordinator
- 2010 Loops and Legs in Quantum Field Theory, 25/4-30/4 2010 Woerlitz, Germany: Member of the International Programme Committee.
- 2010 School and Workshops on the Standard Model and Beyond - Standard Cosmology August 29 - September 5, 2009: Member of the International Programme Committee.

Invited talks and visits

1. University of Athens, Greece.
2. NRCPS 'Democritos', Athens, Greece.
3. CERN, Geneva, Switzerland.
4. Ecole Polytechnique, Palaiseau, France.
5. Ecole Normale Supérieure, Paris, France.
6. LAPP, Annecy, France.
7. University of Crete, Iraklion, Greece.
8. University of Thessaloniki, Greece.
9. DESY, Hamburg, Germany.
10. University of Ioannina, Greece.
11. National Technical University of Athens.
12. University of Durham, United Kingdom.
13. University of Minnesota, Minneapolis, MI, USA.
14. New York University, New York, NY, USA.
15. City College of New York, New York, NY, USA.
16. Northeastern University, Boston, Mass, USA.
17. DRAL, Didcot, United Kingdom.
18. Catholic University of Nijmegen, The Netherlands.
19. Argonne National Laboratory, IL, USA.
20. University of Torino, Italy.
21. Desy-Zeuthen, Berlin, Germany.
22. Max-Planck Institute, Munich, Germany.
23. ETH, Zurich, Switzerland.
24. NIKHEF, Amsterdam, Netherlands.
25. Institute of Nuclear Physics PAN, Krakow, Poland.
26. CMS, Monte Carlo Generator meeting (26/4/07), CERN, Geneva, Switzerland.
27. ATLAS, Monte Carlo Generator meeting (4/6/07), CERN, Geneva, Switzerland.
28. University of Warsaw (23 March 2009), Warsaw, Poland.
29. Stanford University, SLAC National Accelerator Laboratory, USA.

Teaching Experience

1986 - 1989	I have participated in laboratory exercises and teaching in University of Athens, as teaching assistant.
1989 - 1991	I have organized a post-graduate tutorial on high-energy phenomenology at NCSR 'Democritos', and I have supervised the PhD work of Dr. O. Korakianitis (PhD thesis: 'Phenomenology of and beyond the Standard Model of particle interactions at high energies', February 1993, University of London) as well as the first stages of the work of Dr. K. Philippides (PhD from New York University, 1995, NY, USA).
1995	I have participated in the Annual Summer School organized by NCSR 'Democritos', giving two lectures on 'Recent developments in Elementary Particle Physics'
1996 - 1997	I have organized and taught the one-semester course on 'Computational techniques in high-energy phenomenology'. This course has been offered for the first time in Greece. It is now part of the graduate school programme of the Department of Applied Mathematics and Physical Sciences, National Technical University of Athens.
2001-2003	Teaching 'Introduction to Physical Sciences', at the Hellenic Open University.

2003-2011	Teaching ‘Quantum Physics’, at the Hellenic Open University. The course is composed by three units: Quantum Mechanics, Nuclear Physics and Elementary Particle Physics.
PhD/MSc	<p>I have supervised or participated in the supervision (member of the PhD advisory and examination committees) of the following PhD Students:</p> <p>O. Korakianitis, February 1993, University of London, PhD, <i>Phenomenology of and beyond the Standard Model of particle interactions at high energies</i>, advisor: Prof. A. Love.</p> <p>K. Phillipides, May 1996, New York University, PhD, <i>Quantum Loop Contributions to form factors and universal corrections of the Standard Model</i>, advisor: Prof. A. Sirlin.</p> <p>Y. Contogiannis, 2001, University of Athens, PhD, <i>Theory of critical fluctuations in the quark matter</i>, advisor: Prof. N. Antoniou.</p> <p>P. Draggiotis, November 2002, Katholieke Universiteit Nijmegen (KUN), The Netherlands, PhD, <i>QCD Explosion: enumeration and computation of QCD processes</i>, scholarship NCSR, advisors: R. Kleiss and C.G.Papadopoulos (co-promotor).</p> <p>A. Kanaki, June 2003, National Technical University of Athens, PhD, <i>The effective action approach to Higher order corrections</i>, scholarship NCSR, advisor: C.G.Papadopoulos.</p> <p>D. Noucios, 1999-2002, National Technical University of Athens, uncompleted, <i>NLO QCD corrections for arbitrary partonic scattering processes</i>, scholarship NCSR, unfinished, advisor: C.G.Papadopoulos.</p> <p>E. Petrakou, March 2006, National Technical University of Athens, Master Thesis, <i>Study of the MSSM and the Susy QED</i>, advisor: C.G.Papadopoulos.</p> <p>A. Lazopoulos, Katholieke Universiteit Nijmegen (KUN), The Netherlands, PhD student, PhD appointed in 2005, advisors: R. Kleiss and C.G.Papadopoulos (co-promotor).</p> <p>A. Vlachos, National Technical University of Athens, PhD student, scholarship NCSR, co-advisor: C.G.Papadopoulos.</p> <p>I. Malamos, University of Athens & Radboud University Nijmegen, PhD student, scholarship NCSR, co-advisor: C.G.Papadopoulos.</p> <p>N. Davis, University of Athens, PhD student, scholarship NCSR, co-advisor: C.G.Papadopoulos.</p> <p>A. Chatzistavrakidis, National Technical University of Athens, PhD student, scholarship NCSR-D, member of the 3-member advisory committee along with G.Zoupanos and G.Koutsoumbas, and member of the examination committee. PhD approved July 2010.</p> <p>A. Kardos, University of Debrecen, Hungary, PhD student, Early Stage Researcher, HEPTOOLS.</p> <p>I have been participating also in the examination committee of Dr. Andreas van Hameren, at the University of Nijmegen.</p>
Post-Doc	<p>I have supervised/I am supervising the post-doctoral training of:</p> <p>A.van Hameren, January 2001 - March 2004.</p> <p>M. Worek, December 2003 - November 2005.</p> <p>P. Draggiotis, November 2004 - November 2006.</p> <p>G. Ossola, April 2006 - April 2008.</p> <p>A. Cafarella, October 2006 - October 2008.</p> <p>G. Bevilacqua, December 2008 - December 2010.</p>

Development of educational material

I have developed the educational material entitled "Quantum Mechanics", consisting of 16 hours of webcast (2004-2005) and "Quantum Field Theory (2007-2008).

Administrative experience

I have been participated as:

1. Member elected of the Advisory Board of the Institute of Nuclear Physics, 2000-2002.
2. Appointed by the Ministry of Development, as member of the CERN Greek Committee, 2005-today.
3. Deputy member of the Research Management Committee of NCSR- Demokritos (Επιτροπή Ερευνών), 2005-2008.
4. Appointed by the Secretary General of Research and Technology, as expert, in the Greek delegate to the 7th Framework Programme (FP7) of the European Commission, 'People' (ex. Marie-Curie Actions), 2006-2009.

Scientific Organizations

I am member of the following Societies:

1. Greek Physical Society.
2. Hellenic Society for the Study of High Energy Physics (HSSHEP), elected member of the board, 2003-2006.
3. Greek Union of Researchers (EEE), elected member of the board, 2003-2005, and president of the board, 2005-2007.
4. Marie Curie Fellowship Association.

Languages

Beyond Greek, I have a good knowledge of French and English.

Publication List

International Journals.

1. '*Jets with small missing energy at CERN and Fermilab in Supersymmetry*', E.N. Argyres, C.G. Papadopoulos and S.D.P. Vlassopoulos, Physics Letters **B180** (1986), 177.
2. '*Bounds on the top quark mass in N=1 Supergravity Models*', C. Chiou-Lahanas, B.C. Georgalas and C.G. Papadopoulos, Physics Letters **B193** (1987), 55.
3. '*Jet signatures of scalar diquarks from superstrings at CERN and Fermilab*', E.N. Argyres, C.G. Papadopoulos and S.D.P. Vlassopoulos, Physics Letters **B202** (1988), 425.

4. '*Quantization of Roberston-Walker geometry coupled to spin $\frac{3}{2}$ field*',
T. Christodoulakis and C.G. Papadopoulos,
Physical Review **D38** (1989), 1063.
5. '*Unusual phenomena in the rapidity distribution and the phase transition of the quark-gluon plasma*',
N.G. Antoniou, E.N. Argyres, P.S. Dimitriadis, C.G. Papadopoulos, L.B. Papatsimba and S.D.P. Vlassopoulos,
Physical Review **D39** (1989), 792.
6. '*Jet cross sections probing possible quark substructure at hadron colliders*',
E.N. Argyres, C.G. Papadopoulos, S.D.P. Vlassopoulos,
Nuclear Physics **B324** (1989), 91.
7. '*Local supersymmetry and superconformal algebra in two dimensions and strings in background fields*',
G.A. Diamandis, B.C. Georgalas, A.B. Lahanas and C.G. Papadopoulos,
Physics Letters **B227** (1989), 81.
8. '*Quantum dynamical aspects of two-dimensional spaces of constant negative curvature*',
E.N. Argyres, C.G. Papadopoulos, E. Papantonopoulos and K. Tamvakis,
Journal of Physics **A22** (1989), 3577.
9. '*C-number anomalies on a curved world-sheet*',
E.N. Argyres and C.G. Papadopoulos,
Physics Letters **B248** (1990), 79.
10. '*The Gross-Neveu model near the critical temperature, a mechanism for quark-hadron phase transition in relativistic ion collisions*',
N.G. Antoniou, A.I. Karanikas and C.G. Papadopoulos,
Physics Letters **B233** (1989), 423.
11. '*A note on the connection between $SL(2, R)$ current algebra and general covariance*',
E.N. Argyres, E.G. Floratos and C.G. Papadopoulos,
Physics Letters **B234** (1990), 304.
12. '*Four jet cross sections in e^+e^- annihilation at LEP and SLC energies*',
E.N. Argyres, C.G. Papadopoulos and S.D.P. Vlassopoulos,
Physics Letters **B237** (1990), 581.
13. '*Jet signatures of scalar diquarks from superstrings at e^+e^- colliders*',
E.N. Argyres, D. Atwood, A.P. Contogouris, C.G. Papadopoulos and S.D.P. Vlassopoulos,
Physics Letters **B237** (1990), 577.
14. '*Intermittency, Kadanof scaling and Hadronization*',
N.G. Antoniou, E.N. Argyres, A.P. Contogouris, C.G. Papadopoulos and S.D.P. Vlassopoulos,
Physics Letters **B245** (1990), 619.
15. '*Accompanied dileptons as a probe of an effective quark-lepton contact interaction at e^+e^- colliders*',
E.N. Argyres, O. Korakianitis, C.G. Papadopoulos and S.D.P. Vlassopoulos,
Nuclear Physics **B354** (1991), 1.
16. '*Testing 3-boson couplings in the Standard Model via single W production at LEP*',
E.N. Argyres and C.G. Papadopoulos,
Physics Letters **B263** (1991), 298.
17. '*Intermittency effects in a two-component model*',
N.G. Antoniou, E.N. Argyres, C.G. Papadopoulos and S.D.P. Vlassopoulos,
Physics Letters **B260** (1991), 199.

18. '*Intermittency in high energy collisions and a phase transition in the Feynman-Wilson fluid*',
N.G. Antoniou, A.P. Contogouris, C.G. Papadopoulos and S.D.P. Vlassopoulos,
Physical Review **D45** (1992), 4034.
19. ' *$W^+W^-\gamma$ production as a test of three boson couplings at LEP1*',
E.N. Argyres, O. Korakianitis, C.G. Papadopoulos and W.J. Stirling,
Physics Letters **B259** (1991), 195.
20. '*The phenomenology of the fractal pomeron*',
N.G. Antoniou, F. Diakonon and C.G. Papadopoulos,
Physics Letters **B265** (1991), 399.
21. ' *$W^+W^-\gamma$ production as a test of the Standard Model at LHC and SSC*',
E.N. Argyres, F. Diakonon, O. Korakianitis, C.G. Papadopoulos and W.J. Stirling,
Physics Letters **B272** (1991), 431.
22. ' *$W\gamma\gamma$ production as a test of three- and four-gauge-boson couplings at LHC and SSC*',
E.N. Argyres, G. Katsilieris, O. Korakianitis, C.G. Papadopoulos, C. Philippides and W.J. Stirling,
Physics Letters **B280** (1992), 324.
23. '*Testing contact interactions of quarks and gluons at future pp colliders*',
E.N. Argyres, G. Katsilieris, C.G. Papadopoulos and S.D.P. Vlassopoulos,
International Journal of Modern Physics **A7**(1992) 7915.
24. '*One-loop corrections to three vector boson vertices in the Standard Model*',
E.N. Argyres, G. Katsilieris, A.B. Lahanas, C.G. Papadopoulos and V.C. Spanos,
Nuclear Physics **B391**(1993) 23.
25. '*Amplitude estimates for multi-Higgs production at high energies*',
E.N. Argyres, R.H.P. Kleiss and C.G. Papadopoulos,
Nuclear Physics **B391**(1993) 42.
26. '*Cross-section estimates for multi-Higgs production at high energies*',
E.N. Argyres, R.H.P. Kleiss and C.G. Papadopoulos,
Nuclear Physics **B391**(1993) 57.
27. '*Perturbative unitarity constraints on scalar self-interactions*',
E.N. Argyres, R.H.P. Kleiss and C.G. Papadopoulos,
Physics Letters **B296** (1992), 139.
28. '*Hadronic intermittency and chaotic motion in rapidity space*',
N.G. Antoniou, F.K. Diakonon, C.G. Papadopoulos and P.Schmelcher,
Physical Review **E48** (1993) 3399-3405.
29. '*Multiscalar production amplitudes beyond threshold*',
E.N. Argyres, R.H.P. Kleiss and C.G. Papadopoulos,
Nuclear Physics **B395**(1993) 3.
30. '*On amplitude zeros at threshold*',
E.N. Argyres, R.H.P. Kleiss and C.G. Papadopoulos,
Physics Letters **B302**(1993) 70.
31. ' *$W + \gamma + \text{jet}$ production as a test of the electromagnetic couplings of W at LHC and SSC*',
F.K. Diakonon, O. Korakianitis, C.G. Papadopoulos, C. Philippides and W.J. Stirling,
Physics Letters **B303**(1993) 177.
32. '*Multiscalar amplitudes to all orders in perturbation theory*',
E.N. Argyres, R.H.P. Kleiss and C.G. Papadopoulos,
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Advisory Committee: Prof. N. Antoniou, (main advisor), Prof. C. Kourkouvelis and Prof. S. Vlassopoulos.

Citations

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