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CURRICULUM VITAE

Born: 1965. Zagreb, Croatia

Education:

1991. Received BS degree in theoretical nuclear physics on the theme of physics of the Solar neutrinos
1994. Defended PhD thesis under the title: "A Study of a Hadronic Liquid Argon Calorimeter Prototype for an LHC Experiment: Testing in the Beam and Optimization of Energy Resolution by Means of a Weighting Method", L'Universite de Savoie, Chambéry, France.

Publications:

Author or co-author of over 90 scientific articles in publications cited in the Current Contents and 17 expert articles in the field of electronics, informatics and physics, most of which have been published in international journals. Inventor of 2 patents and 1 patent application. Citations: >2500; h-factor: 29; RG Score: >47.0.

Reviewing:

Member of Editorial Board of **Nature's Scientific Reports** since May 2017. (<https://www.nature.com/srep/about/editorial-board>).

A reviewer for the following scientific journals:

1. **Nature Communications** (Nature Publishing Group)
2. **Light: Science & Applications** (Nature Publishing Group)
3. **Optics Letters** (Optical Society of America, OSA)
4. **Optics Express** (Optical Society of America, OSA)
5. **Optics Communications** (Elsevier)
6. **Journal of Modern Optics** (Taylor & Francis)
7. **Entropy** (MDPI)
8. **Journal of Lightwave Technology** (IEEE)
9. **IEEE Photonics Technology Letters** (IEEE)
10. **Optical Engineering** (IEEE)
11. **Mod. Phys. Lett. B** (World Scientific)
12. **Review of Scientific Instruments** (American Institute of Physics, AIP)
13. **Applied Physics Letters** (American Institute of Physics, AIP)
14. **Chinese Optics Letters** (Zhongguo Kexue Zazhise/Science in China Press)
15. **British Journal of Mathematics & Computer Science** (SCIENCEDOMAIN international).

Professional advances and professional experience:

- 1991.-1994. "Research Assistant" at the RBI, Zagreb, Croatia.
- 1991.-1999. Active member of the international collaboration NOMAD at CERN, Geneva, **Switzerland**. Participated in preliminary tests important for the proof of concept of the detector of NOMAD and later research.
- 1992.-1994. "Visiting scientist" at Laboratoire d'Annecy-le-Vieux de Physique des Particules (LAPP), Annecy, **Francuska**.
- 19.05.1994. PhD physics at the Universite de Savoie, Chambéry, **France**.
- 1994.-2001. Postdoctoral studies, participation in the following experiments: NOMAD, NOMAD-STAR, OPERA at CERN, Geneva, **Switzerland**.
- 20.02.1998. "Senior assistant", at the RBI, Zagreb, **Croatia**.
- 10.1999. Completion of the Advanced Technology Course "Cryptography: fundamentals and applications", Engelberg, **Switzerland**.
- 16.07.2002. "Scientific Associate", at the RBI, Zagreb, **Croatia**.
- 09.12.2005. "Senior Scientific Associate", at the RBI, Zagreb, **Croatia**.
- 01.10.2010.-30.09.2011. Fulbright scholarship at Physics Dept. University of California Santa Barbara, Santa Barbara, **SAD**.
- 04.11.2010.-04.11.2011. Visiting Project Scientist, Physics Dept. UC Santa Barbara, **USA**.
- 04.11.2011.-31.12.2012. "Project Scientist Step III", Electrical and Computer Engineering Dept. UC Santa Barbara, **USA**.

Duties at the RBI Institute:

- 2014- Leader of Photonics and quantum optics research unit of Centre of excellence for advanced materials and sensing devices (CEMS).
- 2013-2016 A member of the Intellectual Property Committee of RBI.
- 2010-2011 A member of the Intellectual Property Committee of RBI.
- 2005 Leader of the task Group that wrote the Rules and regulations act for managing of intellectual property at RBI.
- 2001-2015 CARNet (Croatian Academic and Research Network) coordinator.
- 2001-2007 A member of the Committee for computers and communication.
- 2001-2003 A member of Body for control and supervision of process of building of the institute-wide optical gigabit computer network.
- 1999 Initiator and leader of the pilot project the Group for building the first cluster computer in Computing center of RBI.

Selected project leaderships:

- 2017-2022 **Co-Pi** of the project "**Support for top-level research of Centre of excellence for advanced materials and sensing devices**", European structural and investment funds (ESIF), grant No. KK.01.1.1.01.0001
- 2016-2017 **Leader** of the OeAD project of Croatian-Austrian collaboration "**Quantum entanglement for ultra-secure communications**", C# 533-19-16-0002
- 2014-present **Head** of the **Photonics and Quantum Optics Research Unit at Centre of Excellence for Advanced Materials and Sensing Devices**, RBI, Contract No. 533-19-15-0022
- 2007-2010 **Leader** of the science and technology project "**Photon detector**", financed by the [Croatian Institute of Technology](#), contract date 13.11.2007.

- 2007-2008 Croatian-side **leader** of the DAAD project of Croatian-German collaboration "**Experiments in quantum communication and quantum information**".
- 2007-2014 **Leader** of the Scientific Project: "**Experiments in Quantum Communication and Quantum Information**" (A basic research project financed by the [Croatian Ministry of Science Education and Sports](#), No. 098-0352851-2873
- 2004-2005 **Leader** of project "**Quantum Random Bit Generator**", **World Bank** grant, Technology Assistance Program TAL-2;
- 2003-2004 **Leader** of information technology project "**System for secure transfer of data over the Internet using random numbers and CGI technology**", CARNet contract No. 650-103/03;
- 2003-2004 **Leader** of information technology project "**Secure web server with individualized access to a database**", grant by Ministry of science and technology of Republic of Croatia contract No. 942-11-11-2003;
- 2002-2003 **Leader** of information technology project "**Remote control of processes and measurements via cellular telephony and the Internet**", grant by Ministry of science and technology of Republic of Croatia contract No. 353-01-10-2002;
- 1999 **Initiator and leader** of the pilot project and founder of the Group for building **the first scientific cluster computer in Croatia** at RBI;
- 1998-2002 **Leader** of the pilot project for young scientists, "**Research of neutrino oscillations at CERN**" funded by the Ministry of science and technology of Republic of Croatia, contract number. 098479;

Awards:

2018. RBI's annual award for best scientific papers, for article Opt. Express **25**, 21861-21876 (2017).
2016. Award "Special acknowledgment from RBI for outstanding contribution to strengthening scientific excellence and the reputation of the Institute, as well as the launch of the Science Excellence Center for Advanced Materials and Sensors - CEMS.", Zagreb, 21. prosinca 2016.
2015. Award of director general of RBI for encouraging applications for competitive projects at Horizon 2020 for the project iSEQURE.
2011. Fulbright scholarship (1 year) at University of California at Santa Barbara, Department of Physics, Santa Barbara, USA.
2005. Golden medal "ARCA 2005" of the Third international innovation exhibition of new ideas, products and technologies of the Zagreb International Autumn Fair 2005. for the innovation "**Quantum Random Number Generator**".
2005. Golden medal of the Salon international de inventions Geneve 2005, for the innovation "**Quantum Random Number Generator**".

Marital status: Married since 1997. Father of two sons and one daughter.

Hobbies: Electronics, computer programming, radio amateurism.

Memberships:

- American optical Society (OSA), since 2011
- IEEE Photonics Society (IEEE), since 2014
- Croatian Physical Society (HFD), since 1995
- CERN, 1991-2005

Patent applications & patents:

1. M. Stipčević, **Process and apparatus for realization of stereo coded signal**, priority date 28.06.1999., submitted to State office for intellectual property, Ulica grada Vukovara 78, Zagreb, application number: **P990203A**. Application is published in *Hrvatski glasnik intelektualnog vlasništva br. 2/2001*
2. M. Stipčević, **Apparatus and method for generating true random bits based on time integration of an electronic noise source**, priority date 17.10.2001., submitted to State office for intellectual property, Ulica grada Vukovara 78, Zagreb, application number: **P20010751A** and world-wide PCT application number: **WO03040854** - 15.05.2003., granted patent number: **HR PK20010751 B3**.
3. M. Stipčević, **Quantum random bit generator**, priority date 30.April 2004, submitted to State office for intellectual property, Ulica grada Vukovara 78, Zagreb, application number: **P20040382A** and world-wide PCT application number: **WO2005106645A2** - 10.11.2005. Granted in Croatia as **P20040382** since 06.05.2009. Now in European international phase.

Invited and oral lectures on international conferences:

1. M. Stipčević, B. G. Christensen, P. G. Kwiat, and D. J. Gauthier, "Advanced active quenching circuits for single-photon avalanche photodiodes", Invited lecture, SPIE Defense and Commercial Sensing 2016, Baltimore, Maryland, USA, April 17-21, 2016. DOI: [10.1117/12.2227999](https://doi.org/10.1117/12.2227999)
2. M. Stipčević, "Random flip-flop and its applications," Proc 37th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2014, Opatija, Croatia, May 26-30, 2014. IEEE, pp 1387-1393. DOI: [10.1109/MIPRO.2014.6859784](https://doi.org/10.1109/MIPRO.2014.6859784)
3. D. J. Gauthier, C. F. Wildfeuer, H. Guilbert, M. Stipčević, B. Christensen, D. Kumor, P. G. Kwiat, T. Brougham, S. M. Barnett, "Quantum Key Distribution Using Hyperentangled Time-Bin States", Invited lecture, Proc. CQO X and QIM 2 2013, 17-20 June 2013, Rochester, NY, USA. DOI: [10.1364/QIM.2013.W2A.2](https://doi.org/10.1364/QIM.2013.W2A.2)
4. M. Stipčević, D. J. Gauthier, "Precise Monte Carlo Simulation of Single-Photon Detectors", Oral presentation, Proc. SPIE Defense, Security and Sensing, Paper 87270K, 29 April - 3 May 2013, Baltimore, Maryland, USA, DOI: [10.1117/12.2021577](https://doi.org/10.1117/12.2021577)
5. M. Stipčević, "Quantum random number generators and their applications in cryptography", Invited Oral presentation, Proc. SPIE Defense vol. 8375, Security, and Sensing 23-27 April 2012 in Baltimore, Maryland, USA. DOI: [10.1117/12.919920](https://doi.org/10.1117/12.919920)
6. M. Stipčević, "How secure is quantum cryptography ?", Proc. of the 35-th IEEE sponsored International conference MIPRO 2012, section Information Systems Security, May 21 - 25, 2012, Opatija, Croatia
7. M. Stipčević, "Quantum random number generators and their use in cryptography", appears in Proceedings of the IEEE sponsored International conference MIPRO 2011, section Information Systems Security, May 23 - 28, 2011, Opatija, Croatia
8. M. Stipčević, "New directions in quantum cryptography", Internet conference CUC 2004, 27-29 September 2004, Zagreb, Croatia
9. M. Stipčević, K. Jakovčić, "Process monitoring and control using Internet and cellular telephony", Internet conference CUC 2002, 25-27 September 2002, Zagreb, Croatia
10. M. Stipčević (for the NOMAD collaboration), "Results from NOMAD", Triangle Symposium on Particle Physics, 17-19 June 1999, Zagreb, Croatia
11. M. Stipčević, V. Paar, S. Brant, D. Vorkapić, A. Ljubičić, "²⁰⁵Pb in the cluster vibration model (CVM)", Thallium Neutrino Detection 1990, International Symposium on Solar Neutrino Detection with TI-205, 9-12 October 1990, Dubrovnik, Croatia

Selected invited seminars:

1. M. Stipčević, "Photon detectors, quantum randomness, random flip-flops and their use in ICT security and hyper computation", May 4, 2016, Special seminar of SEAS hosted by prof. M. Loncar at Harvard SEAS, Lexington, MA, USA.

2. M. Stipčević, "Photon detectors, quantum randomness and their applications in ICT security", February 19, 2016, Seminar hosted by dr. S. Verghese at MIT Lincoln Labs, Lexington, MA, USA.
3. M. Stipčević, "Quantum random flip-flop: a novel device for digital and analog signal processing", March 10, 2015. Seminar hosted by Prof. J. E. Bowers, Electrical and computer engineering, University of California Santa Barbara, Santa Barbara, USA.
4. M. Stipčević, "Random Flip-Flop and its Applications", April 02, 2014, QI/AMO Seminar hosted by prof. P. G. Kwiat, Physics Department, University of Illinois at Urbana-Champaign, Urbana, IL, USA
5. M. Stipčević, "Precise Monte Carlo Simulation of APD-based Quantum Random Number Generator", invited seminar given on May 07, 2013, hosted by prof. D. J. Gauthier, Department of Physics, Duke University, Durham, NC, USA
6. M. Stipčević, "Quantum Random Number Generators and Their Applications in Cryptography", invited seminar given on July 05, 2012, hosted by prof. J. Bowers, Department of Electrical and Computer Engineering, University of California Santa Barbara, Santa Barbara, CA 93106
7. M. Stipčević, "Superluminal anomaly in OPERA experiment", Invited seminar given on October 26, 2011, HEP-HEX seminar, hosted by Department of Physics, University of California Santa Barbara, Santa Barbara, CA 93106

Chapters in books:

1. M. Stipčević, and Ç. K. Koç, "True Random Number Generators", in "Open Problems in Mathematics and Computational Science", Koç, Çetin Kaya (Ed.), pp 275-315 Springer 2014, ISBN 978-3-319-10683-0, URL: <http://www.springer.com/gp/book/9783319106823>
2. R. Stevanović, G. Topić, K. Skala, M. Stipčević, B. M. Rogina, "Quantum Random Bit Generator Service for Monte Carlo and Other Stochastic Simulations", Large-Scale Scientific Computing Lecture Notes in Computer Science Volume 4818, pp 508-515, Springer 2008. DOI: [10.1007/978-3-540-78827-0_58](https://doi.org/10.1007/978-3-540-78827-0_58)

List of papers published in peer-reviewed journals indexed in Current Contents:

Google Scholar profile: <https://scholar.google.com/citations?&user=n2ERzo8AAAAJ>

Research Gate profile: https://www.researchgate.net/profile/Mario_Stipcevic

91. N. Agafonova et al. (OPERA Collaboration), "Final results of the search for $\nu(\mu) \rightarrow \nu(e)$ oscillations with the OPERA detector in the CNGS beam", JHEP **06**, 151 (2018). DOI: [10.1007/JHEP06\(2018\)151](https://doi.org/10.1007/JHEP06(2018)151).
90. N. Agafonova et al. (OPERA Collaboration), "Final Results of the OPERA Experiment on $\nu(\tau)$ Appearance in the CNGS Neutrino Beam", Phys. Rev. Lett. **120**, 211801 (2018). DOI: [10.1103/PhysRevLett.120.211801](https://doi.org/10.1103/PhysRevLett.120.211801)
89. A. W. S. K. Joshi, J. Pienaar, T. Ralph, L. Cacciapuoti, W. McCutcheon, J. Rarity, D. Giggenschbach, J. G. Lim, V. Makarov, I. Fuentes, T. Scheidl, E. Beckert, M. Bourennane, D. E. Bruschi, A. Cabello, J. Capmany, A. Carrasco-Casado, E. Diamanti, M. Dusek, D. Elser, A. Gulinatti, R. Hadfield, T. Jennewein, R. Kaltenbaek, M. Krainak, H-K. Lo, C. Marquardt, G. Milburn, M. Peev, A. Poppe, V. Pruneri, R. Renner, C. Salomon, J. Skaar, N. Solomos, M. Stipčević, J. Torres, M. Toyoshima, P. Villoriesi, I. Walmsley, G. Weihs, H. Weinfurter, A. Zeilinger, M. Zukowski, R. Ursin, "Space QUEST mission proposal: experimentally testing decoherence due to gravity", New. J. Phys. 108028.R1 (2018) DOI: [10.1088/1367-2630/aac58b](https://doi.org/10.1088/1367-2630/aac58b)
88. A. W. Ziarkash, S. K. Joshi, M. Stipčević, and R. Ursin, "Comparative study of afterpulsing behavior and models in single photon counting avalanche photo diode detectors", Scientific Reports **8**, 5076:1-8 (2018). DOI: [10.1038/s41598-018-23398-z](https://doi.org/10.1038/s41598-018-23398-z)
87. N. Agafonova et al., "Study of charged hadron multiplicities in charged-current neutrino-lead interactions in the OPERA detector", Eur. Phys. J. **C** 78:62 (2018). DOI: [10.1140/epjc/s10052-017-5509-y](https://doi.org/10.1140/epjc/s10052-017-5509-y)

86. M. Stipčević, B. G. Christensen, P. G. Kwiat, D. J. Gauthier, "An advanced active quenching circuit for ultra-fast quantum cryptography", *Opt. Express* **25**, 21861-21876 (2017) DOI: [10.1364/OE.25.021861](https://doi.org/10.1364/OE.25.021861)
85. A. Anokhina et al., OPERA collaboration, "Search for sterile neutrinos in muon neutrino disappearance mode at FNAL", *Eur. Phys. J. C* **77**:23 (2017). DOI: [10.1140/epjc/s10052-016-4569-8](https://doi.org/10.1140/epjc/s10052-016-4569-8)
84. M. Stipčević, N. Demoli, H. Skenderović, M. Lončarić, A. Radman, J. Gladić, and D. Lovrić, "Effective procedure for determination of unknown vibration frequency and phase using time-averaged digital holography", *Opt. Express* **25**, 10241-10254 (2017), DOI: [10.1364/OE.25.010241](https://doi.org/10.1364/OE.25.010241)
83. Agafonova, A. Aleksandrov, A. Anokhina,..., M. Stipčević, ..., OPERA Collaboration, "Determination of the muon charge sign with the dipolar spectrometers of the OPERA experiment", *J. Instrum.* **11**, P07022-1-P07022-17 (2016).
82. M. Stipčević, "Quantum random flip-flop and its applications in random frequency synthesis and true random number generation", *Rev. Sci. Instrum.* **87**, 035113:1-9 (2016). DOI: <http://dx.doi.org/10.1063/1.4943668>
81. Agafonova, A. Aleksandrov, A. Anokhina,..., M. Stipčević, ..., OPERA Collaboration, "Discovery of tau neutrino appearance in the CNGS neutrino beam with the OPERA experiment", *Phys. Rev. Lett.* **115**, 121802 (2015).
80. N. Demoli, H. Skenderović, M. Stipčević, "Time-averaged photon-counting digital holography", *Opt. Lett.* **40**, 4245-4248 (2015), DOI: [10.1364/OL.40.004245](https://doi.org/10.1364/OL.40.004245)
79. G. Humer, M. Peev, C. Schaeff, S., M. Stipčević, R. Ursin, "A simple and robust method for estimating afterpulsing in single photon detectors", *J. Lightwave Technol.* **33**, 3098-3107 (2015), DOI: [10.1109/JLT.2015.2428053](https://doi.org/10.1109/JLT.2015.2428053)
78. Agafonova, A. Aleksandrov, A. Anokhina,..., M. Stipčević, ..., OPERA Collaboration, "Limits on muon-neutrino to tau-neutrino oscillations induced by a sterile neutrino state obtained by OPERA at the CNGS beam", *J. High Energy Phys.* **6** (2015) art. 069.
77. M. Stipčević, R. Ursin, "An On-Demand Optical Quantum Random Number Generator with In-Future Action and Ultra-Fast Response", *Scientific Reports* **5**, 10214:1-8 (2015). DOI: [10.1038/srep10214](https://doi.org/10.1038/srep10214)
76. M. Stipčević, J. Bowers, "Spatio-temporal optical random number generator", *Opt. Express* **23**, 11619-11631 (2015). DOI: [10.1364/OE.23.011619](https://doi.org/10.1364/OE.23.011619)
75. Agafonova, A. Aleksandrov, A. Anokhina,..., M. Stipčević, ..., OPERA Collaboration, "Observation of tau neutrino appearance in the CNGS beam with the OPERA experiment", *Progr. Theor. Exp. Phys.* **10** (2014) art. 101C01.
74. N. Demoli, H. Skenderović, and M. Stipčević, "Digital holography at light levels below noise using a photon-counting approach", *Opt. Lett.* **39**, 5010–5013 (2014). DOI: [10.1364/OL.39.005010](https://doi.org/10.1364/OL.39.005010)
73. N. Agafonova, A. Aleksandrov, A. Anokhina,..., M. Stipčević, ..., OPERA Collaboration, "Procedure for short-lived particle detection in the OPERA experiment and its application to charm decays", *Eur. Phys. J. C* **74**, 2986 (2014).
72. N. Agafonova, A. Aleksandrov, A. Anokhina,..., M. Stipčević, ..., OPERA Collaboration, "Measurement of the TeV atmospheric muon charge ratio with the complete OPERA data set", *Eur. Phys. J. C* **74**, 2933 (2014).
71. N. Agafonova, A. Aleksandrov, A. Anokhina,..., M. Stipčević, ..., OPERA Collaboration, "New results on $\nu(\mu) \rightarrow \nu(\tau)$ appearance with the OPERA experiment in the CNGS beam", *J. High Energy Phys.* **4** (2014), art. 014:1-3.
70. N. Agafonova, A. Aleksandrov, A. Anokhina,..., M. Stipčević, ..., OPERA Collaboration, "Evidence for $\nu(\mu) \rightarrow \nu(\tau)$ appearance in the CNGS neutrino beam with the OPERA experiment", *Phys. Rev. D* **89**, 051102 (2014).
69. M. Stipčević, D. Wang, and R. Ursin, "Characterization of a commercially available large area, high detection efficiency single-photon avalanche diode", *IEEE J. Lightwave Technol.* **31**, 3591-3596 (2013). DOI: [10.1109/JLT.2013.2286422](https://doi.org/10.1109/JLT.2013.2286422)

68. O. Samoylov, R. Petti, S. Alekhin, S., ... M. Stipčević, ..., NOMAD collaboration, "A precision measurement of charm dimuon production in neutrino interactions from the NOMAD experiment", Nucl. Phys. **B 876**,339-375(2013).
67. N. Agafonova, A. Aleksandrov, A. Anokhina, ..., M. Stipčević, ..., OPERA Collaboration, "New results on $\nu(\mu) \rightarrow \nu(\tau)$ appearance with the OPERA experiment in the CNGS beam", J. High Energy Phys. **11**(2013), art. 036:1-31.
66. N. Agafonova, A. Aleksandrov, A. Anokhina, ..., M. Stipčević, ..., OPERA Collaboration, "Search for $\nu(\mu) \rightarrow \nu(e)$ oscillations with the OPERA experiment in the CNGS beam", J. High Energy Phys. **7**(2013), art. 004.
65. Adam T., Agafonova N., Aleksandrov A., ..., Stipčević M., ..., "Measurement of the neutrino velocity with the OPERA detector in the CNGS beam using the 2012 dedicated data", J. High Energy Phys. **1**(2013) art. 153.
64. Adam T., Agafonova N., Aleksandrov A., ..., Stipčević M., ..., "Measurement of the neutrino velocity with the OPERA detector in the CNGS beam", J. High Energy Phys. **10**(2012) art. 093.
63. Agafonova, N., Antonioli, P., Ashikhmin, V. V., ..., Stipčević M.; ..., "Determination of a time-shift in the OPERA set-up using high-energy horizontal muons in the LVD and OPERA detectors", Eur. Phys. J. Plus **127**(2012) art. 71.
62. Agafonova N., Aleksandrov A., Altinok O., ..., Stipčević M., ..., "Search for $\nu_\mu \rightarrow \nu_\tau$ oscillation with the OPERA experiment in the CNGS beam", New J. Phys. **14**(2012) 033017.
61. Agafonova N., Aleksandrov A., Altinok O., ..., Stipčević M., ..., "Momentum measurement by the multiple Coulomb scattering method in the OPERA lead-emulsion target", New J. Phys. **14**(2012) 013026.
60. Kullenberg C.T., Mishra S.R., ..., Stipčević M., ..., "A search for single photon events in neutrino interactions, Phys. Lett. **B 706**(2012)268-275.
59. Bertolin A., Brugnera R., Candela A., ..., Stipčević M., ..., "Long term performances of OPERA bakelite RPC system", Nucl. Instr. and Meth. **A 661**(2012)S60-S63.
58. Agafonova N., Anokhina A., ..., Stipčević M., ..., "Study of neutrino interactions with the electronic detectors of the OPERA experiment", New J. Phys. **13**(2011)053051.
57. Stipčević M., Skenderović H., Gracin D., "Characterization of a novel avalanche photodiode for single photon detection in VIS-NIR range", Opt. Express **18**,17448-17459 (2010). DOI: [10.1364/OE.18.017448](https://doi.org/10.1364/OE.18.017448)
56. Agafonova N., Aleksandrov A., ..., Stipčević M., ..., "Observation of a first ν_τ candidate event in the OPERA experiment in the CNGS beam", Phys. Lett. **B 691**(2010)138-145.
55. Agafonova N., Anokhina A., ..., Stipčević M., ..., "Measurement of the atmospheric muon charge ratio with the OPERA detector", Eur. Phys. J. **C 67**(2010)25-37.
54. Kullenberg C.T., Mishra S.R., ..., Stipčević M., ..., "A measurement of coherent neutral pion production in neutrino neutral current interactions in the NOMAD experiment", Phys. Lett. **B 682**(2009)177-184.
53. Lyubushkin V., Popov B., Kim J.J., ..., Stipčević M., ..., "A study of quasi-elastic muon neutrino and antineutrino scattering in the NOMAD experiment", Eur. Phys. J. **C 63**(2009)355-381.
52. Acquafredda R., Adam T., Agafonova N., ..., Stipčević M., ..., "The detection of neutrino interactions in the emulsion/lead target of the OPERA experiment", J. Instrum. **4**(2009)P06020.
51. Bertolin A., Brugnera R., Candela A., ..., Stipčević M., ..., "The RPC system of the OPERA experiment", Nucl. Instr. and Meth. **A 602**(2009)631-634.
50. Bergnoli A., Bertolin A., Brugnera R., ..., Stipčević M., ..., Performances of the OPERA RPCs, Nucl. Instr. and Meth. **A 602**(2009)635-638.
49. Acquafredda R., Adam T., Agafonova N., ..., Stipčević M., ..., "The OPERA experiment in the CERN to Gran Sasso neutrino beam", J. Instrum. **4** (2009)P04018.

48. M. Stipčević, "Active quenching circuit for single-photon detection with Geiger mode avalanche photodiodes", *Appl. Opt.* **48**(2009)1705-1714. DOI: [10.1364/AO.48.001705](https://doi.org/10.1364/AO.48.001705)
47. A. Anokhina, S. Aoki, A. Ariga, ..., M. Stipčević, ..., "Study of the effects induced by lead on the emulsion films of the OPERA experiment", *J. Instrum.* **3**(2008) P07002.
46. A. Anokhina, S. Aoki, A. Ariga, ..., M. Stipčević, ..., "Emulsion sheet doublets as interface trackers for the OPERA experiment", *J. Instrum.* **3**(2008) P07005.
45. Samoylov O, Naumov D, Cavasinni V, ..., M. Stipčević, ..., NOMAD Collaboration, "A precise measurement of the muon neutrino-nucleon inclusive charged current cross section off an isoscalar target in the energy range 2.5-40 GeV by NOMAD", *Phys. Lett. B* **660**(2008)19-25
44. M. Stipčević, B. Medved Rogina, "Quantum random number generator based on photonic emission in semiconductors", *Rev. Sci. Instrum.* **78**(2007)045104:1-7. DOI: [10.1063/1.2720728](https://doi.org/10.1063/1.2720728)
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