**Prof. dr. habil. ADRIAN PALCU**

**LISTA**

**lucrărilor ştiinţifice**

1. **Teza de doctorat**

**Adrian Palcu** - CONTRIBUȚII LA GENERALIZAREA MODELULUI STANDARD (coordonator științific – Prof.univ.dr. Ion I. Cotăescu)

1. **Cărţi publicate în edituri românești**
   1. **Adrian Palcu**, Modele gauge 3-4-1, Editura Universității „Aurel Vlaicu” din Arad (2016), ISBN: 978- 973-752-763-9.
   2. **Adrian Palcu**, Modelul Standard. Fundamente teoretice, Editura Universității „Aurel Vlaicu” din Arad (2015), ISBN: 978-973-752-745-5.
   3. **Adrian Palcu**, Grupuri Lie. Algebre Lie. Aplicații în fizica particulelor, Editura Universității „Aurel Vlaicu” din Arad (2015), ISBN: 978-973-752-741-7.
   4. Ion I. Cotăescu și **Adrian Palcu**, Cuantificarea a doua, Editura Universității „Aurel Vlaicu” din Arad (2016), ISBN: 978-973-752-757-8.
   5. Ion I. Cotăescu și **Adrian Palcu**, Fundamentele teoretice ale mecanicii cuantice, Editura Universității „Aurel Vlaicu” din Arad (2016), ISBN: 978-973-752-758-5.
   6. Ion I. Cotăescu și **Adrian Palcu**, Probleme de mecanică cuantică cu soluții exacte, Editura Universității „Aurel Vlaicu” din Arad (2016), ISBN: 978-973-752-729-5.
   7. Ion. I Cotăescu și **Adrian Palcu**, Metode de perturbații în mecanica cuantică, Editura Universității „Aurel Vlaicu” din Arad (2016), ISBN: 978-973-752-759-2.
2. **Lucrări indexate ISI**

1. Lucrări publicate in reviste **indexate ISI**
   1. **A. Palcu**: ON TRILINEAR TERMS IN THE SCALAR POTENTIAL OF 3-3-1 GAUGE MODELS, Modern Physics Letters*A* **35** (2020), 2050083, World Scientific (Print ISSN: 0217 – 7323, Online ISSN: 1793 – 6632).
   2. **A. Palcu**: IMPLEMENTING INVERSE SEESAW MECHANISM IN SU(3) x SU(4) x U(1) GAUGE MODELS, *International Journal of Theoretical Physics* **56**, pp. 403 - 414 (2017). Springer (Print ISSN: 0020-7748, Online ISSN: 1572-9575).
   3. **A. Palcu**: A STRAIGHTFORWARD REALISATION OF THE QUASI-INVERSE SEESAW MECHANISM AT TEV SCALE, *Romanian Reports in Physics* **68**, pp. 128 - 137 (2016). Publishing House of Romanian Academy (Online ISSN: 1841 – 8759).
   4. **A. Palcu**: REVISITING THE HIGGS SECTOR OF A 3-3-1 MODEL IN THE LIGHT OF 126 GeV SIGNAL AT THE LHC, *Progress of Theoretical and Experimental Physics* **2013**, 0903B03, pp. 1 - 20 (2013). Oxford University Press (Online ISSN: 2050 – 2911).
   5. **A. Palcu**: POSSIBLE HIGGS BOSON DECAYS IN A 3-3-1 GAUGE MODEL, *Romanian Reports in Physics* **65**, pp. 363 - 373 (2013). Publishing House of Romanian Academy (Online ISSN: 1841 – 8759).
   6. **A. Palcu**: DIMENSION-FIVE EFFECTIVE OPERATORS IN ELECTRO-WEAK SU(4) x U(1) GAUGE MODELS, *Physical Review D* **85**, 113010 (2012). American Physical Society.
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   8. **A. Palcu**: NEUTRINO MASSES WITH A SUITABLE PARAMETRIZATION IN THE PPF 3-3-1 GAUGE MODEL – *Romanian Journal of Physics* **55**, pp. 285 – 295 (2010), Publishing House of Romanian Academy (ISSN: 1221 – 146X).
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   10. **A. Palcu**: ELECTRO-WEAK SU(4) x U(1) MODELS WITHOUT EXOTIC ELECTRIC CHARGES – *International Journal of Modern Physics A* **24**, pp. 4923 – 4938 (2009), World Scientific (Print ISSN: 0217 – 751X, Online ISSN: 1793 – 656X)
   11. **A. Palcu**: NEUTRAL CURRENTS IN SU(4) x U(1) MODEL WITH EXOTIC ELECTRIC CHARGES – *Modern Physics Letters A* **24**, pp. 2175 - 2180 (2009), World Scientific (Print ISSN: 0217 – 7323, Online ISSN: 1793 – 6632).
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   13. **A. Palcu**: THE ELECTRIC CHARGE ASSIGNMENT IN SU(4) x U(1) GAUGE MODELS – *Modern Physics Letters A* **24**, pp. 1247 - 1255 (2009), World Scientific. (Print ISSN: 0217 – 7323, Online ISSN: 1793 - 6632).
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  2. **A. Palcu**: THE HIGGS SECTOR OF A 3-4-1 GAUGE MODEL, AIP Conference Proceedings, **1916** (2017), 020007 pp.1-5 (2017), American Institute of Physics (Print ISBN: 978-0-7354-1608-6) – ISI Proceedings
  3. **A. Palcu**: NEUTRINO MASSES IN SU(4)xU(1) GAUGE MODELS – Proceedings of the Physics Conference TIM-12, pp.28-32 (2013), American Institute of Physics (Print ISBN: 987-0-7354-0668-1, ISSN: 0094-243X). – ISI Proceedings
  4. **A. Palcu**: ON THE GLOBAL SYMMETRY L(e)-L(μ)-L(τ) IN A 3-3-1 GAUGE MODEL WITH RIGHT- HANDED NEUTRINOS – Proceedings of the Physics Conference TIM-08, pp. 45 – 50 (2009), American Institute of Physics (Print ISBN: 978-0-7354-0668-1, ISSN: 0094-243X). – ISI Proceedings

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2. S. Nădăban, **A. Palcu**, M. Tomescu: „FUZZY METRIZABILITY OF TOPOLOGICAL VECTOR SPACES” International Symposium RESEARCH AND EDUCATION IN INOVATION ERA 4th edition – organized by „Aurel Vlaicu“ University Arad, 8 – 9 November 2012).
3. **A. Palcu**, S. Nădăban, A. Șandru, M. Tomescu: „IS THE GLOBAL SYMMETRY L(e)-L(μ)-L(τ) SUITABLE FOR THE NEUTRINO SECTOR IN GAUGE MODELS?” International Symposium RESEARCH AND EDUCATION IN INOVATION ERA 4th edition – organized by „Aurel Vlaicu“ University Arad, 8 – 9 November 2012).
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5. A. Șandru, **A. Palcu**, S. Nădăban: „DENOISING TECHNIQUES IN TIME-SERIES FORECASTING WITH EXEMPLE“ (International Symposium RESEARCH AND EDUCATION IN INOVATION ERA 3rd edition – organized by „Aurel Vlaicu“ University Arad, 10 – 12 November 2010).
6. S. Nădăban, M. Tomescu, **A. Palcu**: „ON FUZZY BANACH SPACES“ (International Symposium RESEARCH AND EDUCATION IN INOVATION ERA 3rd edition – organized by „Aurel Vlaicu“ University Arad, 10 – 12 November 2010).
7. M. Tomescu, S. Nădăban, **A. Palcu**: „INTELLIGENT CONTROL SYSTEMS“ (International Symposium RESEARCH AND EDUCATION IN INOVATION ERA 3rd edition – organized by „Aurel Vlaicu“ University Arad, 10 – 12 November 2010).