

**Conf. Dr. Adrian Palcu**  
Activitate științifică

**ARTICOLE**  
(publicate in reviste cotate ISI)

**Adrian Palcu:** DIMENSION-FIVE EFFECTIVE OPERATORS IN ELECTRO-WEAK  $SU(4) \times U(1)$  GAUGE MODELS, *Physical. Review D* **85**, 113010 (2012). American Physical Society.

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**Adrian Palcu,** Sorin Nădăban, Andrea Șandru: SOME REMARKS ON THE BOSON MASS SPECTRUM IN A 3-3-1 GAUGE MODEL – *Romanian Journal of Physics* **56**, pp. 673 – 681 (2011), Publishing House of Romanian Academy (ISSN: 1221 – 146X).

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**Adrian 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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**Adrian Palcu:** CANONICAL SEESAW MECHANISM IN ELECTRO-WEAK  $SU(4) \times U(1)$  MODELS – *Modern Physics Letters A* **24**, pp. 2589 – 2600 (2009), World Scientific (Print ISSN: 0217 – 7323, Online ISSN: 1793 – 6632).

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**Adrian Palcu:** ELECTRO-WEAK  $SU(4) \times U(1)$  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).

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**Adrian Palcu:** NEUTRAL CURRENTS IN  $SU(4) \times U(1)$  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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A. Jaramillo and L. A. Sanchez, FLAVOR CHANGING NEUTRAL CURRENTS, CP VIOLATION AND IMPLICATIONS FOR SOME RARE DECAYS IN A  $SU(4) \times U(1)$  EXTENSION OF THE STANDARD MODEL, *Phys. Rev D* **84**, 115001 (2011).

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S. Villada and L. A. Sanchez, PHENOMENOLOGY OF A THREE-FAMILY MODELS WITH GAUGE SYMMETRY  $SU(3) \times SU(4) \times U(1)$ , *J. Phys. G* **36**, 115002 (2009), IOP.

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F. Ramirez-Zavaleta, G. Tavares-Velasco and J. J. Toscano, BILEPTON EFFECTS ON THE WWV VERTEX IN THE 331 MODEL WITH RIGHT-HANDED NEUTRINOS VIA A  $SU(2)_X U(1)$

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\*S-au exclus autocitarile.

## ARTICOLE

(prezentate la conferinte internationale, volume proceedings)

1. **Adrian Palcu:** „NEUTRINO MASSES IN SU(4)xU(1) GAUGE MODELS” (International Physics Conference TIM – 12, organized by Physics Faculty – West University Timișoara, 27 – 30 November 2012).
2. Sorin Nădăban, **Adrian Palcu**, Marius Tomescu: „FUZZY METRIZABILITY OF TOPOLOGICAL VECTOR SPACES” International Symposium RESEARCH AND EDUCATION IN INOVATION ERA 4<sup>th</sup> edition – organized by „Aurel Vlaicu” University Arad, 8 – 9 November 2012).
3. **Adrian Palcu**, Sorin Nădăban, Andrea Șandru, Marius Tomescu: „IS THE GLOBAL SYMMETRY L(e)-L( $\mu$ )-L( $\tau$ ) SUITABLE FOR THE NEUTRINO SECTOR IN GAUGE MODELS?” International Symposium RESEARCH AND EDUCATION IN INOVATION ERA 4<sup>th</sup> edition – organized by „Aurel Vlaicu” University Arad, 8 – 9 November 2012).
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7. Marius Tomescu, Sorin Nădăban, **Adrian Palcu:** „INTELLIGENT CONTROL SYSTEMS” (International Symposium RESEARCH AND EDUCATION IN INOVATION ERA 3<sup>rd</sup> edition – organized by „Aurel Vlaicu” University Arad, 10 – 12 November 2010).

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9. **Adrian Palcu** and Andrea Șandru: „ON THE SEESAW MECHANISM IN 3-4-1 ELECTROWEAK GAUGE MODELS“ (International Conference in Science – organized by Oradea University, 12 – 14 November 2009).
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11. **Adrian Palcu:** „IS THERE A CRITICAL POINT IN THE EXACT SOLUTION OF A 3-3-1 GAUGE MODEL WITH RIGHT HANDED NEUTRINOS?“ (International Physics Conference TIM – 08, organized by Physics Faculty – West University Timișoara, 28 – 29 November 2008).
12. **Adrian Palcu:** „ON THE GLOBAL SYMMETRY  $L(e) - L(\mu) - L(\tau)$  IN A 3-3-1 GAUGE MODEL WITH RIGHT HANDED NEUTRINOS“ (International Physics Conference TIM – 08, organized by Physics Faculty – West University Timișoara, 28 – 29 November 2008).
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14. **Adrian Palcu** and Andrea Șandru: „SUITABLE LIE GROUPS FOR ELECTRO-WEAK GAUGE THEORIES“ (International Symposium RESEARCH AND EDUCATION IN INNOVATION ERA 2<sup>nd</sup> edition – organized by „Aurel Vlaicu“ University Arad, 20 – 21 November 2008).
15. **Adrian Palcu:** „IMPLEMENTING CANONICAL SEESAW MECHANISM IN THE EXACT SOLUTION OF A 3-3-1 GAUGE MODEL WITH RIGHT HANDED NEUTRINOS“ (the International Physics Conference TIM – 06, organized by Physics Faculty – West University Timișoara, 24 – 25 November 2006).
16. **Adrian Palcu:** „THE EXACT SOLUTION OF 3-3-1 GAUGE MODELS WITHOUT EXOTIC ELECTRIC CHARGES“ (the International Physics Conference TIM – 05, organized by Physics Faculty – West University Timișoara, 25 – 26 November 2005).
17. **Adrian Palcu:** „NEUTRINO MASS IN 3-3-1 GAUGE MODELS WITHOUT EXOTIC ELECTRIC CHARGES“ (the International Physics Conference TIM – 05, organized by Physics Faculty – West University Timișoara, 25 – 26 November 2005).
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