

## LIST OF JOINT PUBLICATIONS

Projects within the framework of the Agreement between  
Bulgarian Academy of Sciences (Sofia, Bulgaria) and  
Ben-Gurion University of the Negev (Beer-Sheva, Israel)

Participants: Prof. Emil Nissimov and Prof. Svetlana Pacheva (INRNE-BAS)  
Prof. Eduardo Guendelman, Prof. Alexander Kaganovich, Dr. Mahary Visahoun  
(Dept. Physics, BGU)

1. *Volume-Preserving Diffeomorphisms Versus Local Gauge Symmetry*. *Phys. Lett.* **360B** (1995) 57 (*hep-th/9505128*).  
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3. *String and Brane Models with Spontaneously or Dynamically Induced Tension*. *Phys. Rev. D* **66** (2002) 046003 (*hep-th/0203024*).  
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4. *String and Brane Tensions as Dynamical Degrees of Freedom*, in “*First Workshop on Gravity, Astrophysics and Strings*”, p.136, P. Fiziev *et.al.* eds., Sofia Univ. Press, 2003 (*hep-th/0210062*).  
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By E.I. Guendelman and A. Kaganovich (Ben-Gurion Univ., Beer-Sheva), E. Nissimov and S. Pacheva (Inst. Nucl. Res., Sofia), 2004.
7. *Weyl-Invariant Light-Like Branes and Black Hole Physics*, talk at the Annual Workshop of European RTN “EUCLID”, Sozopol (Bulgaria, 2004), *hep-th/0409078*.  
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By E.I. Guendelman and A. Kaganovich (Ben-Gurion Univ., Beer-Sheva), E. Nissimov and S. Pacheva (Inst. Nucl. Res., Sofia), 2004.

9. *New Physics From A Dynamical Volume Element*, in “What Comes Beyond the Standard Models”, Bled Workshops in Physics Vol.5, pp.40-49, N. Borstnik, H.B. Nielsen *et.al.* eds., Ljubljana Univ. Press (2004) ([hep-th/0411122](#)).

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By E.I. Guendelman and A. Kaganovich (Ben-Gurion Univ., Beer-Sheva), E. Nissimov and S. Pacheva (Inst. Nucl. Res., Sofia), 2005.

12. *Self-Consistent Solutions for Bulk Gravity-Matter Systems Coupled to Lightlike Branes*, talks at *IV Summer School in Modern Mathematical Physics*, Belgrade (Sept. 2006), and 2nd Workshop of European RTN “*Constituents, Fundamental Forces and Symmetries of the Universe*”, Naples (Oct. 2006), [hep-th/0611022](#).

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18. *Variable-Tension Lightlike Brane as a Gravitational Source of Traversable Misner-Wheeler-Type Wormholes.* *Phys. Lett.* **B673** (2009) 288-292 (arxiv:0811.2882[hep-th]).  
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21. *Einstein-Rosen "Bridge" Needs Lightlike Brane Source.* *Phys. Lett.* **B681** (2009) 457-462 (arxiv:0904.3198[hep-th]).  
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By E.I. Guendelman and A. Kaganovich (Ben-Gurion Univ., Beer-Sheva), E. Nissimov and S. Pacheva (Inst. Nucl. Res., Sofia), 2009.
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By E.I. Guendelman and M. Vasihoun (Ben-Gurion Univ., Beer-Sheva), E. Nissimov and S. Pacheva (Inst. Nucl. Res., Sofia), 2013.

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37.  *$f(R)$ -Gravity: “Einstein Frame” Lagrangian Formulation, Non-Standard Black Holes and QCD-like Confinement/Deconfinement,* in *Springer Proceedings in Mathematics and Statistics*, Vol.

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52. *Quintessential Inflation, Unified Dark Energy and Dark Matter, and Higgs Mechanism*, *Bulgarian Journal of Physics* **44** (2017) 15-30 (arxiv:1609.06915).

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