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LIST OF
PUBLICATIONS

Publications in International Journals

1. *Gravitino dark matter and neutrino masses in partial split supersymmetry;*
Marco Aurelio Dáz, Sebastián García Sáenz, and Benjamin Koch;
Phys.Rev.D84:055007, 2011;
[arXiv:1106.0308].
2. *Exact renormalization group with optimal scale and its application to cosmology;*
Benjamin Koch, Israel Ramirez;
Class.Quantum Grav.28:055008, 2011;
[arXiv:1010.2799].
3. *Renormalization group improved black hole space-time in large extra dimensions;*
Thomas Burschil, Benjamin Koch;
JETP Lett.92:4, 2010;
[arXiv:0912.4517].
4. *Explaining Solar Neutrinos with Heavy Higgs Masses in Partial Split Supersymmetry;*
Marco Aurelio Díaz, Benjamin Koch, Francisca Garay;
Phys.Rev.D80:113005, 2009;
[arXiv:0918.2987].
5. *Gravity Effects on Neutrino Masses in Split Supersymmetry;*
Marco Aurelio Díaz, Benjamin Koch, Boris Panes;
Phys.Rev.D79:113009, 2009;
[arXiv:0902.1720].
6. *Exclusion of black hole disaster scenarios at the LHC;*
Benjamin Koch, Marcus Bleicher, Horst Stöcker;
Phys.Lett.B672:71, 2009;
[arXiv:0807.3349].
7. *Renormalization group and black hole production in large extra dimensions;*
Benjamin Koch;
Phys.Lett.B663:334, 2008;
[arXiv:0707.4644].

8. *Gravitational radiation from elastic particle scattering in models with extra dimensions;*
Benjamin Koch, M. Bleicher;
JETP Lett.**87:75**, 2008;
[hep-th/0512353].
9. *First Order Calculation of the Inclusive Cross Section pp to ZZ by Graviton Exchange in Large Extra Dimensions;*
Martin Kober, Benjamin Koch, Marcus Bleicher;
Phys.Rev.**D76:125001,2007**, 2007;
[arXiv:0708.2368].
10. *The Gravitational analogue to the hydrogen atom. A summer study at the borders of quantum mechanics and general relativity;*
Martin Kober, Benjamin Koch, Marcus Bleicher;
J-Phys.**E.28:465**, 2007;
[arXiv:physics/0703064].
11. *Gravitational Radiation from Ultrahigh Energy Cosmic Rays in Models with Large Extra Dimensions;*
Benjamin Koch, Hans Joachim Drescher, Marcus Bleicher;
Astropart.Phys.**25:291**, 2006;
[arXiv:astro-ph/0602164].
12. *Black Hole Remnants at the LHC;*
Benjamin Koch, Marcus Bleicher, Sabine Hossenfelder;
JHEP **0510:053**, 2005;
[arXiv:hep-ph/0507138].

Publications in Conference Proceedings

13. *Quantizing Geometry or Geometrizing the Quantum?*
Benjamin Koch;
Quantum Theory Reconsideration of Foundations 5;
Vaxjo, Sweden;
AIP Conf.Proc.1232:313, 2010.
14. *Geometrizing the Quantum - a toy model*
Benjamin Koch;
13th Max Born Symposium;
Wroclaw, Poland;
AIP Conf.Proc.1196:161, 2009.
15. *Heavy Ion Collisions at the LHC - Last Call for Predictions;*
N. Armesto, (ed.) et al.;
Workshop on Heavy Ion Collisions at the LHC: Last Call for Predictions;
Geneva, Switzerland;
J.Phys.G35:054001, 2008;
[arXiv:0711.0974].
16. *Early black hole signals at the LHC;*
Benjamin Koch, Marcus Bleicher, Horst Stöcker;
7th Latin American Symposium on Nuclear Physics and Applications;
Cusco, Peru;
AIP Conf.Proc.947:376, 2007.
17. *An introduction to mini black holes at LHC;*
Horst Stöcker, Benjamin Koch, Marcus Bleicher;
36th International Symposium on Multiparticle Dynamics,
Rio de Janeiro, Brazil;
Braz.J.Phys.37:836, 2007.
18. *Black Holes at LHC?*
Benjamin Koch, Marcus Bleicher, Horst Stöcker;
Quark matter;
Shanghai;
J.Phys.G34:535, 2007;
[arXiv:hep-ph/0702187].
19. *Black Holes and Qasistable Remnants at the LHC;*
Benjamin Koch, Marcus Bleicher, Sabine Hossenfelder;
Fundamental Interactions;
Lake Louise, Canada;
Fund.Interactions.21:235, 2006.

20. *Towards a Realistic MSSM Prediction for Neutrino-nucleon Deep-inelastic Scattering*;
Oliver Brein, Wolfgang Hollik, Benjamin Koch;
14th International Conference on Supersymmetry and the Unification of Fundamental Interactions; Irvine, USA;
IPPP-06-74, 2006;
[arXiv:hep-ph/0611033].
21. *Signatures for Black Hole Production from Hadronic Observables at the Large Hadron Collider*;
Thomas J. Humanic, Benjamin Koch, Horst Stöcker;
International Symposium on Heavy Ion Physics (ISHIP);
Frankfurt, Germany;
Int.J.Mod.Phys.E16:841, 2006
[arXiv:hep-ph/0607097].
22. *Mini Black Holes at the LHC: Discovery through Di-jet Suppression, Mono-jet Emission and a Supersonic boom in the Quark-gluon Plasma in ALICE, ATLAS and CMS*;
B. Betz, M. Bleicher, U. Harbach, T. Humanic, B. Koch, H. Stöcker;
22nd Winter Workshop on Nuclear Dynamic;
La Jolla, USA, 2006;
[arXiv:hep-ph/0606193].
23. *Large Extra Dimensions and the Minimal Scale Constraints through High Precision Experiments*;
U. Harbach, B. Koch, M. Bleicher, S. Hossenfelder;
Annual Meeting of the Division of Particles and Fields;
Riverside, California, USA;
Int.J.Mod.Phys.A20:3334, 2005.
24. *Radiative Corrections to Deep-inelastic Neutrino-nucleon Scattering in the MSSM*;
Oliver Brein, Wolfgang Hollik, Benjamin Koch;
International Conference on Linear Colliders (LCWS 2004);
Paris, France;
[arXiv:hep-ph/0408331].

Submitted Publications

25. *A Relativistic De Broglie Bohm Formalism Equivalent to the Dirac Equation*;
Benjamin Koch, Nicolas Rojas;
[arxiv:1101.4619v1].
26. *Trapping Black Hole Remnants*;
Sabine Hossenfelder, Benjamin Koch, Marcus Bleicher;
Unpublished, 2005;
[arXiv:hep-ph/0507140].