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LIST OF
PUBLICATIONS

Publications in International Journals

1. *Gravity Effects on Neutrino Masses in Split Supersymmetry*
Marco Aurelio Diaz, Benjamin Koch, Boris Panes;
Phys.Rev.D79:113009, 2009;
[arXiv:0902.1720].
2. *Exclusion of black hole disaster scenarios at the LHC*
Benjamin Koch, Marcus Bleicher, Horst Stoecker;
Phys.Lett.B672:71-76, 2009;
[arXiv:0807.3349].
3. *Renormalization group and black hole production in large extra dimensions*
Benjamin Koch;
Phys.Lett.B663:334-337, 2008;
[arXiv:0707.4644].
4. *Gravitational radiation from elastic particle scattering in models with extra dimensions*
Benjamin Koch, M. Bleicher;
JETP Lett.87:75-80, 2008;
[hep-th/0512353].
5. *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].
6. *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.28:465-478, 2007;
[arXiv:physics/0703064].

7. *Gravitational Radiation from Ultrahigh Energy Cosmic Rays in Models with Large Extra Dimensions.*
Benjamin Koch, Hans Joachim Drescher, Marcus Bleicher;
Astropart.Phys.**25:291-297**, 2006;
[arXiv:astro-ph/0602164].
8. *Black Hole Remnants at the LHC.*
Benjamin Koch, Marcus Bleicher, Sabine Hossenfelder;
JHEP **0510:053**, 2005;
[arXiv:hep-ph/0507138].

Publications in Conference Proceedings

9. *Early black hole signals at the LHC*
Benjamin Koch, Marcus Bleicher, Horst Stocker;
7th Latin American Symposium on Nuclear Physics and Applications;
Cusco, Peru;
AIP Conf.Proc.**947:376-382**, 2007.
10. *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.G**35:054001**, 2008;
[arXiv:0711.0974].
11. *An introduction to mini black holes at LHC*
Horst Stocker, Benjamin Koch, Marcus Bleicher;
36th International Symposium on Multiparticle Dynamics,
Rio de Janeiro, Brazil;
Braz.J.Phys.**37:836-839**, 2007.
12. *Black Holes at LHC?*
Benjamin Koch, Marcus Bleicher, Horst Stoecker;
Quark matter;
Shanghai;
J.Phys.G**34:S535-542**, 2007;
[arXiv:hep-ph/0702187].
13. *Black Holes and Qasistable Remnants at the LHC*
Benjamin Koch, Marcus Bleicher, Sabine Hossenfelder;
Fundamental Interactions;
Lake Louise, Canada;
Fund.Interactions.**21:235-239**, 2006.
14. *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].

15. *Signatures for Black Hole Production from Hadronic Observables at the Large Hadron Collider.*
Thomas J. Humanic, Benjamin Koch, Horst Stoecker;
International Symposium on Heavy Ion Physics (ISHIP);
Frankfurt, Germany;
Int.J.Mod.Phys.E16:841-852, 2006
[arXiv:hep-ph/0607097].
16. *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. Stoecker;
22nd Winter Workshop on Nuclear Dynamic;
La Jolla, USA, 2006;
[arXiv:hep-ph/0606193].
17. *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.A20:3334-3336, 2005.
18. *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

19. *Explaining Solar Neutrinos with Heavy Higgs Masses in Partial Split Supersymmetry*
Marco Aurelio Diaz, Francisca Garay, Benjamin Koch;
Submitted to **PRD**, 2009;
[arXiv:0910.2987].
20. *Quantizing Geometry or Geometrizing the Quantum?*
Benjamin Koch;
Submitted to **Found.Phys.**, 2009.
21. *Geometrizing the Quantum - a toy model*
Benjamin Koch;
Proceedings, 13th Max Born Symposium;
Wroclaw, Poland;
To be published by **AIP**, 2009.
22. *Trapping Black Hole Remnants.*
Sabine Hossenfelder, Benjamin Koch, Marcus Bleicher;
Unpublished;
[arXiv:hep-ph/0507140].