



University of Zagreb
Faculty of Science
Department of Physics

SCIENTIFIC PUBLICATIONS
IN 2011

SCIENTIFIC PUBLICATIONS
PUBLISHED IN JOURNAL ARTICLES AND REVIEW ARTICLES IN 2011
(Web of Science Core Collection)

1. Achenbach, P.; Ayerbe Gayoso, C.; Bernauer, J.C.; Bohm, R.; Bosnar, D.; Bosz, M.; Debenjak, L.; Distler, M.O.; Esser, A.; Frišćić, I.; Gomez Rodriguez, M.; Grießinger, K.; Jennewein, P.; Makek, M.; Merkel, H.; Muller, U.; Nungesser, L.; Pochodzalla, J.; Potokar, M.; Saito, T.R.; Sanchez Majos, S.; Schlimme, B.S.; Sirca, S.; Walcher, Th.; Weinriefer, M.; Yoon, C. (A1 Collaboration)
Strange hadrons - strangeness in strongly interacting particles Strangeness production with KAOS at MAMI
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS. **198** (1), 307-327 (2011)
DOI: [10.1140/epjst/e2011-01496-9](https://doi.org/10.1140/epjst/e2011-01496-9)
IF (2011): 1.562

2. Achenbach, P.; Gayoso, C. Ayerbe; Bernauer, J. C.; Boehm, R.; Bosnar, D.; Boesz, M.; Debenjak, L.; Distler, M. O.; Esser, A.; Frišćić, I.; de la Paz, M. Gomez Rodriguez; Makek, M.; Merkel, H.; Mueller, U.; Nungesser, L.; Pochodzalla, J.; Potokar, M.; Majos, S. Sanchez; Schlimme, B. S.; Sirca, S.; Weinriefer, M. (A1 Collaboration)
Particle tracking in kaon electroproduction with cathode-charge sampling in multi-wire proportional chambers
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. **641** (1), 105-113 (2011)
DOI: [10.1016/j.nima.2011.03.039](https://doi.org/10.1016/j.nima.2011.03.039)
IF (2011): 1.207

3. Achenbach, Patrick; Gayoso, C. Ayerbe; Bernauer, J. C.; Boehm, R.; Bosnar, D.; Debenjak, L.; Distler, M. O.; Esser, A.; Frišćić, I.; de la Paz, M. Gomez Rodriguez; Hoffmann, J.; Makek, M.; Merkel, H.; Minami, S.; Mueller, U.; Nungesser, L.; Ott, W.; Pochodzalla, J.; Potokar, M.; Rusanov, I.; Saito, T. R.; Majos, S. Sanchez; Schlimme, B. S.; Sirca, S.; Voltz, S.; Weindel, K.; Weinriefer, M. (A1 Collaboration)
A Large-Scale FPGA-Based Trigger and Dead-Time Free DAQ System for the KAOS Spectrometer at MAMI
IEEE TRANSACTIONS ON NUCLEAR SCIENCE. **58** (4), 1677-1684 (2011)
DOI: [10.1109/TNS.2011.2157523](https://doi.org/10.1109/TNS.2011.2157523)
IF (2011): 1.447

4. Agakishiev, G.; ...; Planinić, M.; ...; Poljak, N.;; Zoulkarneeva, Y. (STAR Collaboration)
Evolution of the differential transverse momentum correlation function with centrality in Au plus Au collisions at $\sqrt{s}=200$ GeV
PHYSICS LETTERS B. **704** (5), 467-473 (2011)
DOI: [10.1016/j.physletb.2011.09.075](https://doi.org/10.1016/j.physletb.2011.09.075)
IF (2011): 3.955

5. Agakishiev, H.; ...; Planinić, M.; ...; Poljak, N.; ...; Zoukarneeva, Y. (STAR Collaboration)
Observation of the antimatter helium-4 nucleus
NATURE. **473** (7347), 353-356 (2011)
DOI: [10.1038/nature10079](https://doi.org/10.1038/nature10079)
IF (2011): 36.280
6. Agakishiev, H.; ...; Planinić, M.; ...; Poljak, N.; ...; Zoukarneeva, Y. (STAR Collaboration)
High p_T nonphotonic electron production in p + p collisions at $\sqrt{s}=200$ GeV
PHYSICAL REVIEW D. **83** (5), 52006 (2011)
DOI: [10.1103/PhysRevD.83.052006](https://doi.org/10.1103/PhysRevD.83.052006)
IF (2011): 4.558
7. Agakishiev, H.; ...; Planinić, M.; ...; Poljak, N.; ...; Zoukarneeva, Y. (STAR Collaboration)
Experimental studies of di-jet survival and surface emission bias in Au + Au collisions via
angular correlations with respect to back-to-back leading hadrons
PHYSICAL REVIEW C. **83** (6), 61901 (2011)
DOI: [10.1103/PhysRevC.83.061901](https://doi.org/10.1103/PhysRevC.83.061901)
IF (2011): 3.308
8. Aggarwal, M. M.; ...; Planinić, M.; ...; Poljak, N.; ...; Zoukarneeva, Y. (STAR Collaboration)
 $K^*(0)$ production in Cu + Cu and Au + Au collisions at $\sqrt{s_{NN}}=62.4$ GeV and 200 GeV
PHYSICAL REVIEW C. **84** (3), 34909 (2011)
DOI: [10.1103/PhysRevC.84.034909](https://doi.org/10.1103/PhysRevC.84.034909)
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9. Aggarwal, M. M.; ...; Planinić, M.; ...; Poljak, N.; ...; Zoukarneeva, Y. (STAR Collaboration)
Scaling properties at freeze-out in relativistic heavy-ion collisions
PHYSICAL REVIEW C. **83** (3), 34910 (2011)
DOI: [10.1103/PhysRevC.83.034910](https://doi.org/10.1103/PhysRevC.83.034910)
IF (2011): 3.308
10. Aggarwal, M. M.; ...; Planinić, M.; ...; Poljak, N.; ...; Zoukarneeva, Y. (STAR Collaboration)
Strange and multistrange particle production in Au + Au collisions at $\sqrt{s_{NN}}=62.4$ GeV
PHYSICAL REVIEW C. **83** (2), 24901 (2011)
DOI: [10.1103/PhysRevC.83.024901](https://doi.org/10.1103/PhysRevC.83.024901)
IF (2011): 3.308
11. Aggarwal, M. M.; ...; Planinić, M.; ...; Poljak, N.; ...; Zoukarneeva, Y. (STAR Collaboration)
Measurement of the Parity-Violating Longitudinal Single-Spin Asymmetry for W^\pm Boson
Production in Polarized Proton-Proton Collisions at $\sqrt{s}=500$ GeV
PHYSICAL REVIEW LETTERS. **106** (6), 62002 (2011)
DOI: [10.1103/PhysRevLett.106.062002](https://doi.org/10.1103/PhysRevLett.106.062002)
IF (2011): 7.370

12. Aggarwal, M. M.; ...; Planinić, M.; ...; Poljak, N.; ...; Zoulkarneeva, Y. (STAR Collaboration)
 Pion femtoscopy in p + p collisions at $v_s=200$ GeV
 PHYSICAL REVIEW C. **83** (6), 64905 (2011)
 DOI: [10.1103/PhysRevC.83.064905](https://doi.org/10.1103/PhysRevC.83.064905)
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 Transverse Beam Spin Asymmetries at Backward Angles in Elastic Electron-Proton and Quasielastic Electron-Deuteron Scattering
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PHYSICAL REVIEW D. **84** (1), 16006 (2011)
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