

András LÁSZLÓ, December 2024

All publications in peer-reviewed journals

- [1] H. Adhikary, . . . , A. László *et al* (the NA61 Collaboration):
“*Evidence of isospin-symmetry violation in high-energy collisions of atomic nuclei*”;
Nature Communications **16** (2025) 2849 (IF:14.7).
<https://doi.org/10.1038/s41467-025-57234-6>
<https://arxiv.org/abs/2312.06572>

- [2] A. László, Á. Gera, G. Hamar, B. Pálfi, P. Podlaski, B. Rumberger, D. Varga:
Novel method for in-situ drift velocity measurement in large volume TPCs: the Geometry Reference Chamber of the NA61/SHINE experiment at CERN;
Journal of Instrumentation **19** (2024) P07024 (IF: 1.3, Q1).
<https://doi.org/10.1088/1748-0221/19/07/P07024>
<https://arxiv.org/abs/2405.01285>

- [3] A. László, Z. Tarcsey:
On the running and the UV limit of Wilsonian renormalization group flows;
Classical and Quantum Gravity **41** (2024) 125009 (IF: 3.5, Q1).
<https://doi.org/10.1088/1361-6382/ad4a1a>
<http://arxiv.org/abs/2303.03740>

- [4] H. Adhikary, . . . , A. László *et al* (the NA61 Collaboration):
“*Measurements of $\pi^{+/-}$, $K^{+/-}$, p and $pbar$ spectra in $40Ar+45Sc$ collisions at $13A$ to $150A$ GeV/c* ”;
European Physical Journal **C84** (2024) 416 (IF:4.2).
<https://doi.org/10.1140/epjc/s10052-024-12602-2>
<https://arxiv.org/abs/2308.16683>

- [5] H. Adhikary, . . . , A. László *et al* (the NA61 Collaboration):
“*Measurements of higher-order cumulants of multiplicity and net-electric charge distributions in inelastic proton-proton interactions by NA61/SHINE*”;
European Physical Journal **C84** (2024) 921 (IF:4.2).
<https://doi.org/10.1140/epjc/s10052-024-13076-y>
<https://arxiv.org/abs/2312.13706>

- [6] H. Adhikary, . . . , A. László *et al* (the NA61 Collaboration):
“Search for a critical point of strongly-interacting matter in central 40Ar + 45Sc collisions at 13 A - 75 A GeV/c beam momentum”;
European Physical Journal **C84** (2024) 741 (IF:4.2).
<https://doi.org/10.1140/epjc/s10052-024-13012-0>
<https://arxiv.org/abs/2401.03445>
- [7] N. Abgrall, . . . , A. László *et al* (the NA61 Collaboration):
“K0s meson production in inelastic p+p interactions at 31, 40 and 80 GeV/c beam momentum measured by NA61SHINE at the CERN SPS”;
European Physical Journal **C84** (2024) 820 (IF:4.2).
<https://doi.org/10.1140/epjc/s10052-024-13056-2>
<https://arxiv.org/abs/2402.17025>
- [8] H. Adhikary, . . . , A. László *et al* (the NA61 Collaboration):
“Measurements of K0s, Lambda, and Lambdabar production in 120 GeV/c p+C interactions”;
Physical Review **D107** (2023) 072004 (IF:4.6).
<https://doi.org/10.1103/PhysRevD.107.072004>
<https://arxiv.org/abs/2211.00183>
- [9] H. Adhikary, . . . , A. László *et al* (the NA61 Collaboration):
“Measurements of pi+, pi, p, pbar, K+ and K- production in 120 GeV/c p + C interactions”;
Physical Review **D108** (2023) 072013 (IF:4.6).
<https://doi.org/10.1103/PhysRevD.108.072013>
<https://arxiv.org/abs/2306.02961>
- [10] H. Adhikary, . . . , A. László *et al* (the NA61 Collaboration):
“Measurement of hadron production in pi- C interactions at 158 and 350 GeV/c with NA61/SHINE at the CERN SPS”;
Physical Review **D107** (2023) 062004 (IF:4.6).
<https://doi.org/10.1103/PhysRevD.107.062004>
<https://arxiv.org/abs/2209.10561>
- [11] H. Adhikary, . . . , A. László *et al* (the NA61 Collaboration):
“Search for the critical point of strongly-interacting matter in 40Ar + 45Sc collisions at 150 AGeV/c using scaled factorial moments of protons”;
European Physical Journal **C83** (2023) 881 (IF:4.400).
<https://doi.org/10.1140/epjc/s10052-023-11942-9>
<https://arxiv.org/abs/2305.07557>

- [12] H. Adhikary, . . . , A. László *et al* (the NA61 Collaboration):
 “Two-pion femtoscopic correlations in Be+Be collisions at $\sqrt{sNN}=16.84$ GeV measured by the NA61/SHINE at CERN”;
 European Physical Journal **C83** (2023) 919 (IF:4.400).
<https://doi.org/10.1140/epjc/s10052-023-11997-8>
<https://arxiv.org/abs/2302.04593>
- [13] A. László:
 “On generally covariant mathematical formulation of Feynman integral in Lorentz signature”;
 Classical and Quantum Gravity **39** (2022) 185004 (IF:3.853).
<https://doi.org/10.1088/1361-6382/ac8636>
<http://arxiv.org/abs/2201.11408>
- [14] A. Acharya, . . . , A. László *et al* (the NA61 Collaboration):
 “ $K^*(892)0$ meson production in inelastic $p+p$ interactions at 40 and 80 GeV/c beam momenta measured by NA61/SHINE at the CERN SPS”;
 European Physical Journal **C82** (2022) 322 (IF:4.991).
<https://doi.org/10.1140/epjc/s10052-022-10281-5>
<https://arxiv.org/abs/2112.09506>
- [15] A. Acharya, . . . , A. László *et al* (the NA61 Collaboration):
 “ $K0s$ meson production in inelastic $p+p$ interactions at 158 GeV/c beam momentum measured by NA61/SHINE at the CERN SPS”;
 European Physical Journal **C82** (2022) 96 (IF:4.590).
<https://doi.org/10.1140/epjc/s10052-021-09976-y>
<https://arxiv.org/abs/2106.07535>
- [16] A. Acharya, . . . , A. László *et al* (the NA61 Collaboration):
 “Measurements of $\Xi(1530)0$ and $\Xi(1530)0$ production in proton-proton interactions at $\sqrt{sNN} = 17.3$ GeV in the NA61/SHINE experiment”;
 European Physical Journal **C81** (2021) 911 (IF:4.590).
<https://doi.org/10.1140/epjc/s10052-021-09631-6>
<https://arxiv.org/abs/2105.09144>
- [17] L. Andersson, A. László, B. Ruba:
 “Nilpotent symmetries as a mechanism for Grand Unification”;
 JHEP **05** (2021) 240 (IF:5.875).
[https://doi.org/10.1007/JHEP05\(2021\)240](https://doi.org/10.1007/JHEP05(2021)240)
<https://arxiv.org/abs/1909.02208>

- [18] A. László:
 “A *hidden symmetry of conformally invariant Lagrangians*”
 Acta Physica Polonica **B52** (2021) 63 (IF:1.0).
<https://doi.org/10.5506/APhysPolB.52.63>
<https://arxiv.org/abs/1406.5888>
- [19] A. László, Z. Zimborás:
 “*Clarification on theoretical predictions for general relativistic effects in frozen spin storage rings*”
 Gribov-90 Memorial Volume (World Scientific, 2021).
https://doi.org/10.1142/9789811238406_0016
<http://arxiv.org/abs/2009.09820>
- [20] A. Acharya, . . . , A. László *et al* (the NA61 Collaboration):
 “*Spectra and mean multiplicities of pi- in central Ar40+Sc45 collisions at 13A, 19A, 30A, 40A, 75A and 150A GeV/c beam momenta measured by the NA61/SHINE spectrometer at the CERN SPS*”;
 European Physical Journal **C81** (2021) 397 (IF:4.590).
<https://doi.org/10.1140/epjc/s10052-021-09135-3>
<https://arxiv.org/abs/2101.08494>
- [21] A. Acharya, . . . , A. László *et al* (the NA61 Collaboration):
 “*Measurements of multiplicity fluctuations of identified hadrons in inelastic proton-proton interactions at the CERN Super Proton Synchrotron*”;
 European Physical Journal **C81** (2021) 384 (IF:4.590).
<https://doi.org/10.1140/epjc/s10052-021-09107-7>
<https://arxiv.org/abs/2009.01943>
- [22] A. Acharya, . . . , A. László *et al* (the NA61 Collaboration):
 “*Measurement of the production cross section of 31 GeV/c protons on carbon via beam attenuation in a 90-cm-long target*”;
 Physical Review **D103** (2021) 012006 (IF:4.380).
<https://doi.org/10.1103/PhysRevD.103.012006>
<https://arxiv.org/abs/2010.11819>
- [23] A. Acharya, . . . , A. László *et al* (the NA61 Collaboration):
 “*Measurements of pi+/-, K+/-, p and p spectra in 7Be+9Be collisions at beam momenta from 19A to 150A GeV/c with the NA61/SHINE spectrometer at the CERN SPS*”;
 European Physical Journal **C81** (2021) 73 (IF:4.389).
<https://doi.org/10.1140/epjc/s10052-020-08733-x>
<https://arxiv.org/abs/2010.01864>

- [24] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
 “Two-particle correlations in azimuthal angle and pseudorapidity in central 7Be+9Be collisions at the CERN Super Proton Synchrotron”;
 European Physical Journal **C80** (2020) 1151 (IF:4.389).
<https://doi.org/10.1140/epjc/s10052-020-08675-4>
<https://arxiv.org/abs/2006.02153>
- [25] A. Acharya, . . . , A. László *et al* (the NA61 Collaboration):
 “Measurements of π^- production in 7Be + 9Be collisions at beam momenta from 19A to 150A GeV /c in the NA61/SHINE experiment at the CERN SPS”;
 European Physical Journal **C80** (2020) 961 (IF:4.389).
<https://doi.org/10.1140/epjc/s10052-020-08514-6>
<https://arxiv.org/abs/2008.06277>
- [26] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
 “Measurements of Ξ^- and $\bar{\Xi}^+$ production in proton-proton interactions at $\sqrt{s_{NN}} = 17.3$ GeV in the NA61/SHINE experiment”;
 European Physical Journal **C80** (2020) 833 (IF:4.389).
<https://doi.org/10.1140/epjc/s10052-020-8381-0>
<https://arxiv.org/abs/2006.02062>
- [27] B. Rumberger, A. Aduszkiewicz, J. Boissevain, M. Kuich, A. László, Y. Nagai, L. Oláh, P. Podlaski, D. Varga, M. Wensveen, E. D. Zimmerman:
 “The forward TPC system of the NA61/SHINE experiment at CERN: a tandem TPC concept”;
 Journal of Instrumentation **15** (2020) P07013 (IF:1.454).
<https://doi.org/10.1088/1748-0221/15/07/P07013>
<https://arxiv.org/abs/2004.11358>
- [28] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
 “Proton-proton interactions and onset of deconfinement”;
 Physical Review **C102** (2020) 011901 (IF:2.988).
<https://doi.org/10.1103/PhysRevC.102.011901>
<https://arxiv.org/abs/1912.10871>
- [29] László A., Zimborás Z.:
 “Általános relativisztikus effektusok spinpolarizált részecskenyalábokban”;
 Fizikai Szemle **80** (2020) 159.
http://fizikaiszemle.hu/uploads/2020/06/fizszem-202005-laszlo-zimboras_12_47_45_1591354065.6127.pdf

- [30] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
“ $K^*(892)^0$ meson production in inelastic $p+p$ interactions at 158 GeV/c beam momentum measured by NA61/SHINE at the CERN SPS”;
European Physical Journal **C80** (2020) 460 (IF:4.843).
<https://doi.org/10.1140/epjc/s10052-020-7955-1>
<https://arxiv.org/abs/2001.05370>
- [31] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
“Search for an exotic $S = -2$, $Q = -2$ baryon resonance in proton-proton interactions at $\sqrt{s_{NN}} = 17.3$ GeV”;
Physical Review **D101** (2020) 051101 (IF:4.368).
<https://doi.org/10.1103/PhysRevD.101.051101>
<https://arxiv.org/abs/1912.12198>
- [32] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
“Measurement of ϕ meson production in $p+p$ interactions at 40, 80 and 158 GeV/c with the NA61/SHINE spectrometer at the CERN SPS”;
European Physical Journal **C80** (2020) 199 (IF:4.843).
<https://doi.org/10.1140/epjc/s10052-020-7675-6>
<http://arxiv.org/abs/1908.04601>
- [33] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
“Measurements of hadron production in $\pi^+ + C$ and $\pi^+ + Be$ interactions at 60 GeV/c”;
Physical Review **D100** (2019) 112004 (IF:4.368).
<https://doi.org/10.1103/PhysRevD.100.112004>
<https://arxiv.org/abs/1909.06294>
- [34] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
“Measurements of production and inelastic cross sections for $p+C$, $p+Be$, $p+Al$ at 60 GeV/c and $p+C$ and $p+Be$ at 120 GeV/c”;
Physical Review **D100** (2019) 112001 (IF:4.368).
<https://doi.org/10.1103/PhysRevD.100.112001>
<https://arxiv.org/abs/1909.03351>
- [35] A. László:
“General Relativity experiment with frozen spin rings”;
PoS **SPIN2018** (2019) 182.
<https://doi.org/10.22323/1.346.0182>
<https://arxiv.org/abs/1901.06217>
- [36] N. Abgrall, . . . , A. László *et al* (the NA61 Collaboration):
“Measurements of $\pi^+/-$, $K^+/-$ and proton double differential yields from

- the surface of the T2K replica target for incoming 31 GeV/c protons with the NA61/SHINE spectrometer at the CERN SPS*”;
European Physical Journal **C79** (2019) 100 (IF:4.843).
<https://doi.org/10.1140/epjc/s10052-019-6583-0>
<https://arxiv.org/abs/1808.04927>
- [37] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
“*Measurements of total production cross sections for $\pi^+ + C$, $\pi^+ + Al$, $K^+ + C$, and $K^+ + Al$ at 60 GeV/c and $\pi^+ + C$ and $\pi^+ + Al$ at 31 GeV/c*”;
Physical Review **D98** (2018) 052001 (IF:4.394).
<https://doi.org/10.1103/PhysRevD.98.052001>
<http://arxiv.org/abs/arXiv:1805.04546>
- [38] A. László:
“*Possible alternative mechanism to SUSY: conservative extensions of the Poincaré group*”
Proceedings of Quantum Theory and Symmetries X, eds V. Dobrev, Springer (2018).
https://doi.org/10.1007/978-981-13-2179-5_27
<https://arxiv.org/abs/1801.03463>
- [39] A. László, Z. Zimborás:
“*Quantification of GR effects in muon $g-2$, EDM and other spin precession experiments*”;
Classical and Quantum Gravity **35** (2018) 175003 (IF:3.283).
<https://doi.org/10.1088/1361-6382/aacfee>
<https://arxiv.org/abs/1803.01395>
- [40] A. László:
“*Unification mechanism for gauge and spacetime symmetries*”;
Journal of Physics **A50** (2017) 115401 (IF:1.933).
<http://dx.doi.org/10.1088/1751-8121/aa5c04>
<https://arxiv.org/abs/1512.03328>
- [41] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
“*Measurements of π^\pm , K^\pm , p and \bar{p} spectra in proton-proton interactions at 20, 31, 40, 80 and 158 GeV/c with the NA61/SHINE spectrometer at the CERN SPS*”;
European Physical Journal **C77** (2017) 671 (IF:4.912).
<https://doi.org/10.1140/epjc/s10052-017-5260-4>
<https://arxiv.org/abs/1705.02467>

- [42] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
 “Measurement of meson resonance production in $\pi^- + C$ interactions at SPS energies”;
 European Physical Journal **C77** (2017) 626 (IF:4.912).
<https://doi.org/10.1140/epjc/s10052-017-5184-z>
<https://arxiv.org/abs/1705.08206>
- [43] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
 “Two-particle correlations in azimuthal angle and pseudorapidity in inelastic $p + p$ interactions at the CERN Super Proton Synchrotron”;
 European Physical Journal **C77** (2017) 59 (IF:4.912).
<https://dx.doi.org/10.1140/epjc/s10052-017-4599-x>
<https://arxiv.org/abs/1610.00482>
- [44] A. László:
 “Convergence and error propagation results on a linear iterative unfolding method”;
 SIAM Journal on Uncertainty Quantification **4** (2016) 1345 (IF:1.0).
<http://dx.doi.org/10.1137/15M1035744>
<https://arxiv.org/abs/1404.2787>
- [45] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
 “Multiplicity and transverse momentum fluctuations in inelastic proton-proton interactions at the CERN Super Proton Synchrotron”;
 European Physical Journal **C76** (2016) 635 (IF:4.912).
<http://dx.doi.org/10.1140/epjc/s10052-016-4450-9>
<https://arxiv.org/abs/1510.00163>
- [46] A. Aduszkiewicz, . . . , A. László *et al* (the NA61 Collaboration):
 “Measurements of π^\pm differential yields from the surface of the T2K replica target for incoming 31 GeV/c protons with the NA61/SHINE spectrometer at the CERN SPS”;
 European Physical Journal **C76** (2016) 617 (IF:4.912).
<http://dx.doi.org/10.1140/epjc/s10052-016-4440-y>
<https://arxiv.org/abs/1603.06774>
- [47] A. László, G. Hamar, G. Kiss, D. Varga:
 “Single electron multiplication distribution in GEM avalanches”;
 Journal of Instrumentation **11** (2016) P10017 (IF:1.310).
<http://dx.doi.org/10.1088/1748-0221/11/10/P10017>
<https://arxiv.org/abs/1605.06939>

- [48] A. László:
 “A natural extension of the conformal Lorentz group in a field theory context”;
 International Journal of Modern Physics **A31** (2016) 1645041 (IF:1.699).
<http://dx.doi.org/10.1142/S0217751X1645041X>
<https://arxiv.org/abs/1507.08039>
- [49] A. Aduszkiewicz, . . . , A. László *et al.* (the NA61 Collaboration):
 “Production of Lambda-hyperons in inelastic $p+p$ interactions at 158 GeV/c”;
 European Physical Journal **C76** (2016) 198 (IF:5.084).
<http://dx.doi.org/10.1140/epjc/s10052-016-4003-2>
<https://arxiv.org/abs/1510.03720>
- [50] A. Aduszkiewicz, . . . , A. László *et al.* (the NA61 Collaboration):
 “Measurements of π^\pm , K^\pm , K_S^0 , Λ and proton production in proton-carbon interactions at 31 GeV/c with the NA61/SHINE spectrometer at the CERN SPS”;
 European Physical Journal **C76** (2016) 84 (IF:5.084).
<http://dx.doi.org/10.1140/epjc/s10052-016-3898-y>
<https://arxiv.org/abs/1510.02703>
- [51] A. László, E. Dénes, Z. Fodor, T. Kiss, S. Kleinfelder, C. Soós, D. Tefelski, T. Tölyhi, G. Vesztergombi, O. Wyszynski:
 “Design and performance of the data acquisition system for the NA61/SHINE experiment at CERN”;
 Nuclear Instruments and Methods in Physics Research **A798** (2015) 1 (IF:1.216).
<http://dx.doi.org/10.1016/j.nima.2015.07.011>
<https://arxiv.org/abs/1505.01004>
- [52] A. László, I. Rácz:
 “Superradiance or total reflection?”;
 Relativity and Gravitation, Springer Proceedings in Physics **157** (2014) 119.
http://dx.doi.org/10.1007/978-3-319-06761-2_15
<https://arxiv.org/abs/1212.4847>
- [53] K. Márton, G. Kiss, A. László, D. Varga:
 “Low momentum particle detector for the NA61 experiment at CERN”;
 Nuclear Instruments and Methods **A763** (2014) 372 (IF:1.216).
<http://dx.doi.org/10.1016/j.nima.2014.06.014>
<https://arxiv.org/abs/1401.4392>

- [54] N. Abgrall, . . . , A. László *et al.* (the NA61 Collaboration):
 “NA61/SHINE facility at the CERN SPS: beams and detector system”;
 Journal of Instrumentation **9** (2014) P06005 (IF:1.399).
<http://dx.doi.org/10.1088/1748-0221/9/06/P06005>
<https://arxiv.org/abs/1401.4699>
- [55] N. Abgrall, . . . , A. László *et al.* (the NA61 Collaboration):
 “Measurement of production properties of $K0s$ mesons and Lambda hyperons in proton-carbon interactions at 31 GeV/c”;
 Physical Review **C89** (2014) 025205 (IF:3.733).
<http://dx.doi.org/10.1103/PhysRevC.89.025205>
<https://arxiv.org/abs/1309.1997>
- [56] N. Abgrall, . . . , A. László *et al.* (the NA61 Collaboration):
 “Measurement of negatively charged pion spectra in inelastic $p+p$ interactions at $p_{lab}=20,31,40,80$ and 158 GeV/c”;
 European Physical Journal **C74** (2014) 2794 (IF:5.084).
<http://dx.doi.org/10.1140/epjc/s10052-014-2794-6>
<https://arxiv.org/abs/1310.2417>
- [57] N. Abgrall, . . . , A. László *et al.* (the NA61 Collaboration):
 “Pion emission from the T2K replica target: Method, results and application”;
 Nuclear Instruments and Methods in Physics Research **A701** (2013) 99 (IF:1.216).
<http://dx.doi.org/10.1016/j.nima.2012.10.079>
<https://arxiv.org/abs/1207.2114>
- [58] P. Csizmadia, A László, I. Rácz:
 “On the Use of Multipole Expansion in Time Evolution of Non-linear Dynamical Systems and Some Surprises Related to Superradiance”;
 Classical and Quantum Gravity **30** (2013) 015010 (IF:3.168).
<http://dx.doi.org/10.1088/0264-9381/30/1/015010>
<http://arxiv.org/abs/1207.5837>
- [59] R. Sipos, A. László, A. Marcinek, T. Paul, M. Szuba, M. Unger, D. Vebelic, O. Wyszynski:
 “The Offline Software Framework of the NA61/SHINE Experiment”;
 Journal of Physics Conference Series **396** (2012) 022045.
<http://dx.doi.org/10.1088/1742-6596/396/2/022045>
- [60] A. László:
 “A linear iterative unfolding method”;

- Journal of Physics Conference Series **368** (2012) 012043.
<http://dx.doi.org/10.1088/1742-6596/368/1/012043>
<http://arxiv.org/abs/1111.3387>
- [61] N. Abgrall, . . . , A. László *et al.* (the NA61 Collaboration):
 “Measurement of Production Properties of Positively Charged Kaons in Proton-Carbon Interactions at 31 GeV/c”;
 Physical Review **C85** (2012) 035210 (IF:3.733).
<http://dx.doi.org/10.1103/PhysRevC.85.035210>
<https://arxiv.org/abs/1112.0150>
- [62] T. Anticic, . . . , A. László *et al.* (the NA49 Collaboration):
 “System-size and centrality dependence of charged kaon and pion production in nucleus-nucleus collisions at 40A and 158A GeV beam energy”;
 Physical Review **C86** (2012) 054903 (IF:3.733).
<http://dx.doi.org/10.1103/PhysRevC.86.054903>
<https://arxiv.org/abs/1207.0348>
- [63] T. Anticic, . . . , A. László *et al.* (the NA49 Collaboration):
 “Antideuteron and deuteron production properties in mid-central Pb+Pb collisions at 158 GeV/c”;
 Physical Review **C85** (2012) 044913 (IF:3.733).
<http://dx.doi.org/10.1103/PhysRevC.85.044913>
<https://arxiv.org/abs/1111.2588>
- [64] N. Abgrall, . . . , A. László *et al.* (the NA61 Collaboration):
 “Measurement of Cross Sections and Charged Pion Spectra in Proton-Carbon Interactions at 31 GeV/c”;
 Physical Review **C84** (2011) 034604 (IF:3.733).
<http://dx.doi.org/10.1103/PhysRevC.84.034604>
<https://arxiv.org/abs/1102.0983>
- [65] M. Szuba, A. László *et al.* (the NA49 Collaboration):
 “Two-particle Azimuthal Correlations of High-p(T) Charged Hadrons at the CERN SPS”;
 Indian Journal of Physics **85** (2011) 1057 (IF:1.377).
<https://arxiv.org/abs/0805.4637>
<http://dx.doi.org/10.1007/s12648-011-0130-7>
- [66] A. László *et al.* (the NA49 Collaboration):
 “Nuclear Modification at $\sqrt{s_{NN}} = 17.3$ GeV, Measured at NA49”;
 Indian Journal of Physics **85** (2011) 787 (IF:1.377).

<http://dx.doi.org/10.1007/s12648-011-0077-8>
<https://arxiv.org/abs/0805.4771>

- [67] P. Csizmadia, A. László, I. Rácz:
“*Linear waves on fixed Kerr background and their relevance in jet formation*”;
JPCS **218** (2010) 012007.
<http://dx.doi.org/10.1088/1742-6596/218/1/012007>
- [68] A. László *et al.* (the NA61 Collaboration):
“*The NA61/SHINE Experiment at the CERN SPS*”;
Nuclear Physics **A830** (2009) 559C (IF:2.202).
<http://dx.doi.org/10.1016/j.nuclphysa.2009.09.047>
<https://arxiv.org/abs/0907.4493>
- [69] A. László *et al.* (the NA49 Collaboration):
“*High Transverse Momentum Hadron Spectra at $\sqrt{s_{NN}} = 17.3$ GeV, in Pb+Pb and p+p Collisions*”;
Physical Review **C77** (2008) 034906 (IF:3.733).
<http://dx.doi.org/10.1103/PhysRevC.77.034906>
<https://arxiv.org/abs/0711.0547>
- [70] A. László:
“*A Robust Iterative Unfolding Method for Signal Processing*”;
Journal of Physics **A39** (2006) 13621 (IF:1.583).
<http://dx.doi.org/10.1088/0305-4470/39/44/002>
<http://arxiv.org/abs/math-ph/0601017>
- [71] A. László *et al.* (the NA49 Collaboration):
“*New Results and Perspectives on R_{AA} Measurements Below 20 GeV CM-energy at Fixed Target Machines*”;
International Journal of Modern Physics **E16** (2007) 2516 (IF:1.343).
<http://dx.doi.org/10.1142/S0218301307008185>
<https://arxiv.org/abs/nucl-ex/0702044>
- [72] T. Schuster, A. László *et al.* (the NA49 Collaboration):
“*High $p(T)$ Spectra of Identified Particles Produced in Pb+Pb Collisions at 158 A GeV Beam Energy*”;
Journal of Physics **G32** (2006) s479 (IF:2.777).
<http://dx.doi.org/10.1088/0954-3899/32/12/S60>
<https://arxiv.org/abs/nucl-ex/0606005>

- [73] A. László *et al.* (the NA49 Collaboration):
“*High $p(T)$ Spectra of Identified Particles Produced in Pb Plus Pb Collisions at 158 GeV/nucleon Beam Energy*”;
Nuclear Physics **A774** (2006) 473 (IF:2.202).
<http://dx.doi.org/10.1016/j.nuclphysa.2006.06.068>
<https://arxiv.org/abs/nucl-ex/0510054>

On author list of 46 further peer-reviewed publications, as a member of the NA49 Collaboration.

On author list of 5 further peer-reviewed publications, as a member of the NA61 Collaboration.

More complete list of publications and citations found e.g. on the mtmt.hu webpage.

Further relevant notes and publications

- [74] A. László:
“*Nuclear Modification at 17.3 GeV Nucleon-Nucleon Collision Energy, Measured by the Experiment CERN-NA49*”;
Ph.D. Dissertation, Eötvös University (2007) [EDMS:942284].
- [75] A. László *et al.* (the NA61 Collaboration):
“*Additional Information Requested in the Proposal Review Process*”;
Addendum to the NA49-future Proposal (2007), Section 8
[CDS:CERN-SPSC-2007-004, SPSC-P-330].
- [76] A. László:
“*High Transverse Momentum Identified Charged Particle Yields in 158 GeV/nucleon Pb+Pb Collisions*”;
NA49 Technical Note (2007) [EDMS:879787].
- [77] A. László:
“*Calculating Mean Values of Collision Parameters as a Function of Centrality*”;
NA49 Technical Note (2007) [EDMS:885329].
- [78] A. László *et al.* (the NA61 collaboration):
“*Study of Hadron Production in Hadron-Nucleus and Nucleus-Nucleus Collisions at the CERN SPS*”;

- NA49-future Proposal (2006), Sections 2.2, 3.5.3 and 4.2
[CDS:CERN-SPSC-2006-034, SPSC-P-330].
- [79] A. László *et al.* (the NA61 Collaboration):
“*Study of Hadron Production in Collisions of Protons and Nuclei at the CERN SPS*”;
NA49-future Letter of Intent (2006), Sections 2.2 and 4.2
[CDS:CERN-SPSC-2006-001, SPSC-I-235].
- [80] A. László:
“*Time-dependence Calibration of the Veto Calorimeter*”;
NA49 Technical Note (2006) [EDMS:815907].
- [81] T. S. Bíró, A. László, P. Ván:
“*Mass Gap from Pressure Inequalities*”;
Note (2006) [arXiv:hep-ph/0612085].
- [82] A. László:
“*Building Calorimetric Detectors for CERN Experiments*”;
MSc Thesis, Eötvös University (2004).
- [83] A. László:
“*Mathematical Clarification of General Relativistic Variational Principles*”;
Note (2003) [arXiv:gr-qc/0403041].