

PUBLICATIONS

(Prof. Dr. Kornél Sailer)

Total impact: 96.482

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Refereed publications

1. Nagy S., Sailer K., Daróczy S., Raics P., Nagy J., Germán E.,
Ge(Li) detektor hatásfokának mérése kiterjedt forrásra,
Magyar Fizikai Folyóirat **XXII** (1974) 323. (in Hungarian)
2. Batta Gy., Barta M., Sailer K., Daróczy S., Nagy S., Raics P., Nagy S.-né,
 ^{252}Cf neutronforrás felhasználása dohány aktivációs analitikai vizsgálatára,
Izotópteknika **19** (1976) 140. (in Hungarian)
3. K. Sailer, S. Daróczy, S. Nagy, P. Raics, J. Csikai, L. Gergely,
Determination of the manganese content of aluminium alloys by means of activation
analysis using a ^{252}Cf neutron source,
Atomnaya energiya **39** (1975) 288. (in Russian)
0.243
4. N. V. Kornilov, B. V. Zhuravlev, O. A. Salnikov, P. Raics, S. Nagy, S. Daróczy, K.
Sailer, J. Csikai,
Measurement of the $^{238}U(n, 2n)^{237}U$ cross section at 6.5 – 10.5 MeV neutron energies,
Atomnaya energiya **49** (1980) 283. (in Russian)
0.233
5. K. Sailer, V.K. Tartakovsky,
Investigation of the $^{12}C/p, 2p/^{11}B$ reaction at intermediate proton energies, taking
into account the distortion of wave function in the initial and final states,
Ukr. Fiz. J. **26** (1981) 1414. (in Russian)
0.001
6. K. Sailer, A.D. Foursat, V.K. Tartakovsky,
 $^3He(p, 2p)np$ reaction at intermediate proton energies,
Ukr. Fiz. J. **26** (1981) 1778. (in Russian)
0.001
7. E.B. Lyovshin, K. Sailer, A.D. Foursat,
Many-particle diffraction theory of transfer reactions,
Yad. Fiz. **36** (1982) 1150. (in Russian)
0.204
8. A.D. Foursat, E. Lyovshin, K. Sailer,
On the structure of the transition matrix element in high-energy nuclear reactions,
Nucl.Phys. **392** (1983) 399.
2.458
9. E.B. Lyovshin, K. Sailer, A.D. Foursat,
(p, d) and (d, d') reactions on lithium nuclei at intermediate energies,
Yad. Fiz. **38** (1983) 633. (in Russian)
0.204
10. I. Lovas, J. Németh, K. Sailer,
Is the pion condensate isotropic?,

- Phys. Lett. **B135** (1984) 258.
4.470
11. Sailer K., Németh J., Lovas I.,
Pion-kondenzált és normál állapotú, anizotróp maganyag fázisegyensúlya,
Magyar Fizikai Folyóirat **XXII** (1984) 1. (in Hungarian)
 12. I. Lovas, J. Németh, K. Sailer,
Equilibrium between anisotropic normal and pion-condensed nuclear matter,
Nucl.Phys. **A430** (1984) 731.
2.522
 13. I. Lovas, W. Greiner, P. Hraskó, E. Lovas, K. Sailer,
Gluon-condensation of quark-gluon plasma in mean field approximation,
Phys.Lett. **B156** (1985) 255.
3.917
 14. K. Sailer, W. Greiner, I. Lovas,
Phase transitions in quark-gluon matter,
Phys.Rev. **C34** (1986) 925.
2.038
 15. Lovas I., Greiner W., Hraskó P., Lovas E., Sailer K.,
Gluon-kondenzáció kvark-gluon plazmában,
Magyar Fizikai Folyóirat **XXXIV** (1986) 277. (in Hungarian)
 16. I. Lovas, E. Lovas, K. Sailer,
Nucleon–Nucleon Interaction with Ultra Short Range Attraction,
Acta Phys. Hung. **62** (1986) 347.
 17. I. Lovas, K. Sailer, Z. Trócsányi,
Quark-Gluon Plasma Radiography by Mesons with Hidden Flavor,
J.Phys. **G15** (1989) 1709.
1.199
 18. K. Sailer, I. Lovas,
Gauge-Invariant QHD Lagrangian,
Acta Phys. Hung. **64** (1988) 123.
 19. K. Sailer, B. Müller, W. Greiner,
Numerical Simulation of the Equation of State for the Hadronic Matter within the
String Model,
Int. J. Mod. Phys. **A4** (1989) 437.
2.559
 20. I. Lovas, K. Sailer,
Chiral Invariant Lagrangian for Quantum Hadrodynamics,
Phys.Lett. **B220** (1989) 229.
3.070
 21. D. Neubauer, K. Sailer, B. Müller, H. Stöcker, W. Greiner,
Survival of J/Ψ in Hadronic Matter at High Energy Density?,
Mod. Phys. Lett. **A4** (1989) 1627.
1.484
 22. Zs. Schram, G. Kluge, K. Sailer,
Transition matrix elements independent of the exit channels in the exciton cascade
model,
J. Phys. **G15** (1989) 1445.
1.199

23. Zs. Schram, K. Sailer, B. Müller, W. Greiner,
Boson Interferometry in String Fragmentation,
Z. Phys. **C47** (1990) 137.
1.986
24. K. Sailer, Th. Schönfeld, A. Schäfer, B. Müller, W. Greiner,
Transverse Size Effects in the Fragmentation of Hadronic Strings,
Phys. Lett. **B240** (1990) 381.
3.124
25. Th. Schönfeld, A. Schäfer, B. Müller, K. Sailer, J. Reinhardt, W. Greiner,
Pair Creation in a Flux Tube,
Phys. Lett. **B247** (1990) 5.
3.124
26. T. G. Kovács, I. Lovas, K. Sailer,
Nuclear force with an ultra short range attraction,
J. Phys. **G16** (1990) 801.
1.213
27. Zs. Schram, A. Schäfer, K. Sailer, W. Greiner,
Distribution of gluons in a flux-tube,
Mod. Phys. Lett. **A6** (1991) 3683.
1.395
28. I. Lovas, L. Molnár, K. Sailer, W. Greiner,
Periodic structure in nuclear matter,
Phys. Rev. **D45** (1992) 1693.
2.587
29. B. Fényi, T.G. Kovács, I. Lovas, K. Sailer,
The effect of pion condensation on superfluidity in neutron stars,
J. Phys. **G18** (1992) 1051.
1.257
30. K. Sailer, Z. Hornyák, A. Schäfer, W. Greiner,
 $q\bar{q}$ pair production in expanding hadronic flux tubes,
Phys. Lett. **B287** (1992) 349.
3.438
31. I. Lovas, K. Sailer, Z. Trócsányi,
The ratio of the Φ and J/Ψ meson yields in heavy ion collisions,
Phys. Lett. **B298** (1993) 419.
3.079
32. F. Kun, H. Sorge, K. Sailer, M. Hofmann, G. Bardos, W. Greiner,
Effect of Bose-Einstein correlations on intermittency in ultrarelativistic nucleus–nucleus collisions,
UFTP Prep. 354/1994; *Phys. Lett.* **B333** (1994) 233.
3.056
33. I. Lovas, L. Molnár, K. Sailer, W. Greiner,
Analog of the Peierls-type phase transition in nuclear matter,
Phys. Lett. **B328** (1994) 168.
3.056
34. L. Molnár, K. Ecsedi, T. Iványi, I. Lovas, K. Sailer,
Periodic spin density in nuclear matter,
Acta Phys. Hung. **74** (1994) 420.
35. K. Sailer, A. Schäfer, W. Greiner,
Effect of the Haar measure on the finite temperature effective potential of $SU(2)$

Yang-Mills theory,
Phys. Lett. **B350** (1995) 234.
3.272

36. F. Kun, H. Sorge, K. Sailer, G. Bardos, W. Greiner,
Sandbox method for factorial moments and anomalous fractal dimensions,
Phys. Lett. **B355** (1995) 349. 3.272
37. K. Sailer, W. Greiner,
Renormalized finite temperature effective potential of $SU(2)$ Yang-Mills theory,
Acta Phys. Hung.: Heavy Ion Physics **1** (1995) 157.
38. B. Iványi, Zs. Schram, K. Sailer, W. Greiner,
Time Evolution of the Two-Jet Events $e^+ - e^- \rightarrow Hadrons$ in the Dynamical String
Model,
Acta Phys. Hung.: Heavy Ion Physics **3** (1996) 5.
39. K. Sailer, W. Greiner,
Non-Trivial Fixed Points of the Scalar Field Theory,
KLTE-DTP/1996/2; hep-th/9610143;
Acta Phys. Hung.: Heavy Ion Physics **5** (1997) 41.
40. I. Lovas, K. Sailer, W. Greiner,
Generalized Rarita-Schwinger Equations for Non-Strange Baryons,
Acta Phys. Hung.: Heavy Ion Physics **5** (1997) 85.
41. K. Sailer, W. Greiner,
Does the QCD vacuum build up a colour chemical potential dynamically?
Acta Phys. Hung.: Heavy Ion Physics **8** (1998) 133.
42. I. Lovas, K. Sailer, W. Greiner,
Generalised Rarita-Schwinger Equations,
Acta Phys. Hung.: Heavy Ion Physics **8** (1998) 237.
43. B. Iványi, Z. Schram, K. Sailer, G. Soff,
Nucleus-nucleus collisions in the Dynamical String Model,
hep-ph/9901371; Phys.Rev. **C61** (2000) 024908.
2.384
44. I. Nándori, J. Polonyi, K. Sailer,
On the renormalization of periodic potentials,
hep-th/9910167; Phys.Rev. **D63** (2001) 045022.
4.363
45. S. Nagy, K. Sailer,
Search for periodic vacuum in QED_2 ,
hep-th/9910203; Acta Phys. Hung.:Heavy Ion Phys. **11** (2000) 67.
0.27
46. S. Nagy, K. Sailer,
Response of an electron system to a periodic potential,
hep-th/0012207, Phyl. Mag. B, **81** (2001) 1583-1586.
1.238
47. I. Nándori, J. Polonyi, K. Sailer,
Wave-function renormalization for the Coulomb-gas in Wegner-Houghton's RG method,
Phil. Mag. B, **81**(2001) 1615-1619; hep-th/0012208
1.238
48. J. Polonyi, K. Sailer,
Renormalization of composite operators,
hep-th/0011083; Phys. Rev. **D63** (2001) 105006 (19 pages)
4.363

49. I. N  ndori, K. Sailer, U.D. Jentschura, and G. Soff,
Renormalization of the periodic scalar field theory by Polchinski's renormalization group method,
J. Phys. **G28** (2002)607-616.
(became one of the Highlights of 2002-2003 of J. Phys. G, see <http://www.iop.org/EJ/journal/-page=extra.2/0954-3899>)
1.399
50. J. Alexandre, J. Polonyi, and K. Sailer,
Functional Callan-Symanzik equation for QED,
hep-th/0111152; Phys.Lett. **B531** (2002)316
4.298
51. J. Polonyi, K. Sailer,
EFFECTIVE ACTIONS AND THE DENSITY FUNCTIONAL THEORY,
cond-mat/0108179; Phys. Rev. **B66**(2002)155113 (24 pages)
3.327
52. J. Polonyi, K. Sailer,
Density-Dependent Effective Action for Electron Systems,
Int. J. Quantum Chem. **92**(2003) 181-191.
1.171
53. S. Nagy, J.Polonyi, and K. Sailer,
Coulomb interaction induced Peierls instability,
Acta Phys. and Chim. Debrecina, XXXIV-XXXV (2002) 249-266
54. I. N  ndori, U. D. Jentschura, K. Sailer, and G. Soff,
Renormalization-group analysis of the generalized sine-Gordon model and of the Coulomb gas for $d \geq 3$ dimensions,
Phys. Rev. **D 69** (2004) 025004.
5.156
55. S. Nagy, J. Polonyi and K. Sailer
One-Dimensional Wigner Crystal?
Acta Phys. Hung. A 19/3-4 (2004) 247-250
0.096
56. S. Nagy, J. Polonyi, K. Sailer,
Periodic ground state for the charged massive Schwinger model
Phys. Rev.**D 70** (2004) 105023.
5.156
57. I. N  ndori, K.Sailer
Differential Renormalization-Group Approach to the Layered sine-Gordon Model
hep-th/0508033, Phyl. Mag. **86** (2006) 2033
1.354
58. J. Polonyi, K. Sailer
Renormalization group in the internal space
hep-th/0410271, Phys. Rev. **D71** (2005) 025010
4.852
59. I. Nandori, S. Nagy, K. Sailer and U.D. Jentschura
Renormalization-group analysis of the layered sine-Gordon type models
hep-th/0509100, Nucl. Phys. B 725 [FS](2005) 467-492
5.522
60. S. Nagy, J. Polonyi, K. Sailer,
Effective Potential for the Massive sine-Gordon Model,

- J. Phys. A **39**, 8105 (2006).
1.577
61. S. Nagy, J. Polonyi, K. Sailer, *Non-local Operator Dynamics in Quantum Mechanics* Acta Phys. et Chim. Debr., XL (2006) 67
 62. S. Nagy, I. Nándori, J. Polonyi, K. Sailer, *Renormalizable parameters of the sine-Gordon model*, hep-th/0611061, Phys. Lett. B 647 (2007) 152-158
5.043 (2006)
 63. S. Nagy, I. Nándori, J. Polonyi, K. Sailer, *Generalized universality in the massive sine-Gordon model* hep-th/0611216, Phys.Rev. **D77** (2008) 025026.
 64. I. Nándori, U.D. Jentschura, S. Nagy, K.Sailer, K. Vad, S. Meszaros, *On the applicability of the layered sine-Gordon model for Josephson-coupled high- T_c layered superconductors*, cond-mat/0703750, J. Phys.: Condens. Matter **19**, 236226 (2007) (9pp)
 65. I. Nándori, U.D. Jentschura, S. Nagy, K.Sailer, K. Vad, S. Meszaros, *Field theoretical approach to magnetically coupled layered superconductors*, cond-mat/0705.0578
 66. I. Nándori, K. Vad, S. Meszaros, U.D. Jentschura, S. Nagy, K.Sailer, *Applicability of layered sine-Gordon models to layered superconductors II. The case of magnetic coupling*, J. Phys.: Condens. Matter **19** (2007) 496211 (10pp)

Reviews

1. K. Sailer, B. Müller, W. Greiner,
Hadronic Matter in the String Model,
In *Quark Gluon Plasma*, ed. by R. C. Hwa, (World Sci., Singapore, 1990) 299.
2. K. Sailer, Th. Schönfeld, Zs. Schram, A. Schäfer, W. Greiner,
Strings and Ropes in Heavy-Ion Collisions. Towards a Semiclassical Unified String – Flux Tube Model,
J.Phys. **G17** (1991) 1005.
1.230
3. K. Sailer, Th. Schönfeld, Zs. Schram, A. Schäfer, W. Greiner,
Dynamical String Model on the Basis of a Semiclassical Unified String – Flux Tube Model,
Int. J. Mod. Phys. **A6** (1991) 4395.
2.540

Preprints

1. K. Sailer, V. K. Tartakovsky,
Description of the reaction $^{12}C(p, 2p)^{11}B$ at intermediate proton energies,
ATOMKI Közlemények **22** (1980) 131. (in Russian)
2. E. I. Ismatov, K. Sailer, V. K. Tartakovsky, V. I. Sulga,
On the break-up reaction of the light nuclei,
Vestnik Kievskovo Gosuniversiteta, Fizika **22** (1981) 67. (in Russian)
3. K. Sailer, V. K. Tartakovsky,
Diffraction scattering of proton on nuclei with nucleon knock-out,
ATOMKI Közlemények **23** (1981) 69. (in Russian)

4. V. V. Peresypkin, K. Sailer, V. K. Tartakovsky,
Correlations in the NN -interaction and pd -scattering,
Prep. ITF-81-IIIP/1981. (oroszul)
5. V. K. Tartakovsky, K. Sailer,
On nucleon knock-out from nuclei induced by intermediate energy protons,
Izvestiya vuzov, Fizika **10** (1981) 92. (in Russian)
6. K. Sailer, A. D. Foursat,
Inelastic scattering of π -mesons and clusterization in 7Li nucleus,
ATOMKI Közlemények **24** (1982) 117. (in Russian)
7. E. I. Ismatov, K. Sailer, V. K. Tartakovsky, V. A. Cherednichenko,
Nucleon knock-out from nuclei at intermediate nucleon energies,
Vestnik Kievskovo Gosuniversiteta, Fizika **23** (1982) 53. (in Russian)
8. I. S. Docenko, A. P. Loginov, K. Sailer, V. K. Tartakovsky,
Effect of the structure of the deuteron on its polarization in deuteron-nucleus scattering,
Vestnik Kievskovo Gosuniversiteta, Fizika **23** (1982) 57.
9. I. Lovas, J. Németh, K. Sailer,
Equilibrium between Anisotropic Normal and Pion Condensed Nuclear Matter,
UFTP Prep. 113/1983.
10. I. Lovas, W. Greiner, P. Hraskó, E. Lovas, K. Sailer,
Gluon-Condensation of Quark-Gluon Plasma in Mean Field Approximation,
Prep. KFKI-107/1984.
11. Gy. Kluge, K. Sailer,
Neutron emission in exciton-cascade model calculations,
Prep. KFKI-116/1984.
12. I. S. Docenko, K. Sailer, V. K. Tartakovsky, V. A. Cherednichenko,
Effect of the structure and short-range NN -correlations on the elastic scattering of protons on tritons,
Vestnik Kievskovo Gosuniversiteta, Fizika **26** (1985) 34. (in Russian)
13. Zs. Schram, Gy. Kluge, K. Sailer,
Exciton cascade model for fast neutron reactions,
INDC/HUN/-023/L/1987.
14. K. Sailer, B. Müller, W. Greiner,
Numerical Simulation of the Equation of State for the Hadronic Matter within the String Model,
UFTP Prep. 217/1988.
15. K. Sailer, D. Neubauer, B. Müller, W. Greiner,
Numerical Simulations of the Equation of State for the Hadronic Matter within the String Model,
GSI Sci. Rep. (1988) 133.
16. K. Sailer, B. Müller, W. Greiner,
Hadronic Matter in the String Model,
UFTP Prep. 230/1989.
17. K. Sailer, B. Müller, W. Greiner,
Space-Time Picture of Quark Fragmentation,
UFTP Prep. 237/1989.
18. K. Sailer, B. Müller, W. Greiner,
Role of Transverse Motion in String Fragmentation,
UFTP Prep. 236/1989.

19. K. Sailer, Th. Schönfeld, A Schäfer, B. Müller, W. Greiner,
Transverse Size Effects in the Fragmentation of Hadronic Strings,
UFTP Prep. 244/1990.
20. Th. Schönfeld, A. Schäfer, B. Müller, K. Sailer, J. Reinhardt, W. Greiner,
Pair Creation in a Flux Tube,
UFTP Prep. 242/1990.
21. I. Lovas, K. Sailer, Z. Trócsányi,
The ratio of the Φ and J/Ψ meson yields in heavy ion collisions,
Prep. ETH-TH/92-39/1992.
22. F. Kun, H. Sorge, K. Sailer, M. Hofmann, G. Bardos, W. Greiner,
Effect of Bose-Einstein Correlations on Intermittency in Ultrarelativistic Nucleus–
Nucleus Collisions,
UFTP Prep. 354/1994.
23. K. Sailer,
Phase structure of $SU(2)$ Yang-Mills theory with global center symmetry,
KLTE-DTP/1994/1; hep-ph 9403367 (1994).
24. K. Sailer and W. Greiner,
Renormalized finite temperature effective potential of $SU(2)$ Yang-Mills theory,
hep-th/9506191.
25. I. Nándori, K. Sailer, J. Polónyi,
Renormalisation of the periodic potential,
KLTE-DTP/1997/1.
26. I. Nandori, U. D. Jentschura, K. Sailer, G. Soff,
Renormalization-Group Analysis of the Generalized sine-Gordon Model and of the
Coulomb Gas for $d \geq 3$ Dimensions
hep-th/0310114 (19 pp.)
27. S. Nagy, J. Polonyi, K. Sailer,
Periodic ground state for the charged massive Schwinger model
hep-th/0405156 (20 pp.)

Konferencia közlemények

1. M. Buczkó, J. Csikai, S. Daróczy, Z. Dezső, S. Szegedi, M. Várnagy,
Some Applications of ^{252}Cf Neutron and Fragment Sources in Technology,
Symp. Intern. Sur L'utilisation du Californium 252 (Paris, 1976) VI-1.
2. K. Sailer, S. Daróczy, P. Raics, S. Nagy,
 $(n, 2n)$, (n, p) , and (n, α) cross sections for Cr and Zr isotopes at 14.8 MeV neutron
energy,
Materialy 4-oi Vsesoyuznoi konferencii po neitronnoi fizike, Kiev, 1977, (Moskva,
1977) II/246. (in Russian)
3. K. Sailer, V. K. Tartakovsky,
Description of proton induced knock-out reactions at intermediate energies,
Tezisy dokladov XXXI Soveschaniya po yadernoi spektroskopii i strukture atomnovo
yadra, Samarkand, 1981, (Leningrad, Nauka, 1981) 5232. (in Russian)

4. V. K. Tartakovsky, K. Sailer, A. P. Loginov,
Polarization effects in elastic scattering of deuterons on carbon nucleus,
in *Mikroskopicheskie raschety legkikh yader*, Kalininskii gosuniv., (Kalinin, 1981) 26.
(in Russian)
5. V. V. Peresypkin, K. Sailer, V. K. Tartakovsky,
Short-range correlation in NN -interaction and pd -scattering.
Tezisy dokladov XXXII Soveshchaniya po yadernoi spektroskopii i strukture atom-novo yadra, Kiev, 1982 (Leningrad, Nauka, 1982) 576. (in Russian)
6. I. Lovas, J. Németh, K. Sailer,
Equilibrium between Anisotropic Normal and Pion Condensed Nuclear Matter,
Proc. of the 6-th Balaton Conf. on Nuclear Phys., High Energy Nuclear Physics,
ed. by J. Erő (1983) 17.
7. K. Sailer, Gy. Kluge,
Description of fast neutron induced reactions on heavy nuclei in the intranuclear
cascade model,
Materialy 6-oi Vsesoyuznoi konferencii po neitronnoi fizike, Kiev, 1983 (Moskva,
CNIJatominform, 1984) t. 3, 248.
8. K. Sailer, W. Greiner, I. Lovas,
Phase transitions in quark-gluon matter,
Proc. of Int. Workshop on Gross Prop. of Nuclei and Nuclear Excitations XIV,
Hirschegg, 1986 (Darmstadt, 1986).
9. K. Sailer, I. Lovas,
Charged vector mesons as gauge fields and chiral symmetry,
Proc. of Int. Workshop on Gross Prop. of Nuclei and Nuclear Excitations XV,
Hirschegg, 1987 (Darmstadt, 1987) 266.
10. Z. Trócsányi, I. Lovas, K. Sailer,
Quark-antiquark annihilation in quark-gluon plasma,
Proc. of Int. Workshop on Gross Prop. of Nuclei and Nuclear Excitations XV,
Hirschegg, 1987 (Darmstadt, 1987) 294.
11. K. Sailer,
Gluon condensation in quark-gluon plasma,
in *Problems in high energy physics and field theory*. Proc. of the X Workshop,
Protvino, 1987, ed. by S. N. Sokolov (Moskva, Nauka, 1988) 325.
12. I. Lovas, K. Sailer, Z. Trócsányi,
Quark-Gluon Plasma Radiography by Mesons with Hidden Flavor,
Proc. of Int. Workshop on Gross Prop. of Nuclei and Nuclear Excitations XVI,
Hirschegg, 1988 (Darmstadt, 1988) 275.
13. K. Sailer, B. Müller, W. Greiner,
Numerical Simulation of the Equation of State for the Hadronic Matter within the

String Model,

Proc. of the XXVI. Int. Winter Meeting on Nuclear Physics, Bormio (1988) 632.

14. L. Neise, C. Hartnack, Li Zhuxia, D. Neubauer, G. Peilert, K. Sailer, H. Sorge, J. Aichelin, H. Stöcker, W. Greiner,
Shock Waves and the Nuclear Equation of State,
in *Hadronic Matter in Collision*, ed. by P. Carruthers, J. Rafelski. Proc. of the Conf. on Hadronic Interactions, Tucson, Arizona, 1988 (Singapore, World Sci., 1988) 249.
15. K. Sailer, D. Neubauer, Th. Schönfeld, B. Müller, W. Greiner,
Hadron Dynamics in the String Model,
In *The Nuclear Equation of State*, ed. by W. Greiner and H. Stöcker, NASI Ser. B, Physics Vol. 216B (Plenum, New York, 1990) 531.
16. Th. Schönfeld, K. Sailer,
Introduction to the String Model,
in *The Nuclear Equation of State*, ed. by W. Greiner and H. Stöcker, NASI Ser. B, Physics Vol. 216B (Plenum, New York, 1990) 517.
17. D. Neubauer, K. Sailer, B. Müller, W. Greiner,
 J/Ψ Suppression in a String Model,
in *The Nuclear Equation of State*, ed. by W. Greiner and H. Stöcker, NASI Ser. B, Physics Vol. 216B, (Plenum, New York, 1990) 251.
18. Zs. Schram, K. Sailer, B. Müller, W. Greiner,
Boson Interferometry in String Fragmentation,
Proc. of Int. Workshop on Gross Prop. of Nuclei and Nuclear Excitations XVIII, Hirscheegg, 1990 (Darmstadt, 1990) 325.
19. Zs. Schram, A. Schäfer, K. Sailer, W. Greiner,
Structure function of a gluon string,
Proc. of Int. Workshop on Gross Prop. of Nuclei and Nuclear Excitations XIX, Hirscheegg, 1991 (Darmstadt, 1991) 209.
20. K. Sailer, Zs. Schram, Z. Hornyák, A. Schäfer, W. Greiner,
Distribution of Gluons and $q\bar{q}$ Pair Production in Hadronic Flux Tubes,
Proc. of the Workshop on Relativistic Heavy Ion Physics at Present and Future Accelerators, Budapest, 1991, ed. by T. Csörgő et al. KFKI-1991-28/A, 17.
21. I. Lovas, B. Fényi, T. G. Kovács, K. Sailer,
Pion Condensation and Superfluidity in Neutron Stars,
Proc. of the Workshop on Relativistic Heavy Ion Physics at Present and Future Accelerators, Budapest, 1991, ed. by T. Csörgő et al. KFKI-1991-28/A, 153.
22. K. Sailer, A. Schäfer, W. Greiner,
Fragmentation in the String – Flux Tube Model,
Proc. of Int. Workshop on Gross Prop. of Nuclei and Nuclear Excitations XX, Hirscheegg, 1992 (Darmstadt, 1992) 284.

23. F. Kun, G. Bardos, B. Iványi, K. Sailer, M. Hofmann, R. Mattiello,
Intermittency in High-Energy Heavy-Ion Collisions,
Proc. of Int. Workshop on Gross Prop. of Nuclei and Nuclear Excitations XXI,
Hirschegg, 1993 (Darmstadt, 1993) 287.
24. B. Iványi, Zs. Schram, K. Sailer, W. Greiner,
Developing the Dynamical String Model: Role of Resonances,
in *Hot and Dense Nuclear Matter*, ed. by W. Greiner, H. Stöcker, A. Gallmann,
Proc. of NATO ASI, Bodrum, 1993, B335 (New York, Plenum, 1994) p. 751.
25. K. Sailer,
Phase Structure of $SU(2)$ Yang-Mills Theory with Global Center Symmetry,
in *Hot and Dense Nuclear Matter*, ed. by W. Greiner, H. Stöcker, A. Gallmann,
Proc. of NATO ASI, Bodrum, 1993, B335 (New York, Plenum, 1994) p. 741.
26. F. Kun, H. Sorge, K. Sailer, M. Hofmann, G. Bardos, W. Greiner,
The Role of Bose-Einstein Correlations in Intermittency in Ultrarelativistic Nucleus-
Nucleus Collisions,
in Proc. of Hadron'94 Int. Workshop (Uzhgorod, 1994), p. 245.
27. B. Iványi, Zs. Schram, K. Sailer, W. Greiner,
Discrete Resonances in the Dynamical String Model,
in Proc. of Hadrons'94 Int. Workshop (Uzhgorod, 1994), p. 240.
28. K. Sailer, J. Polónyi, A. Schäfer, W. Greiner,
Effective potential for $SU(2)$ Yang-Mills theory,
in Proc. of Hadron'94 Int. Workshop (Uzhgorod, 1994), p. 167.
29. K. Sailer,
Is scalar field theory trivial?
Structure of Vacuum and Elementary Matter, Wilderness, 1996, Proc. of Int. Conf.
on Nuclear Physics at the Turn of the Millennium, ed. by H. Stöcker, A. Gallmann,
J.H. Hamilton, (World Sci., 1997, Singapore) pp. 632-639.

Disszertációk

1. Sailer K.,
Híg alumíniumötvözetek néhány ötvözőjének meghatározása neutron aktivációs módszerrel,
Diplomamunka (Debrecen, KLTE, 1976).
2. Sailer K.,
Híg alumíniumötvözetek néhány átmeneti fém ötvözőjének menynyiségi meghatározása
neutron aktivációs módszerrel,
Egyetemi doktori értekezés (Debrecen, KLTE, 1978).
3. K. Sailer,
Interaction of nucleons and composite particles with nuclei in diffractional (eikonal)

approximation,
Kandidátusi értekezés (Kiev, Kievskii Gosuniv., 1981). (oroszul)

4. Sailer K.,
Nagysűrűségű hadronikus anyag,
Doktori munkásság tézisszerű összefoglalása (Debrecen, KLTE, 1997).

Egyetemi jegyzetek

(ld. <http://dtp.science.unideb.hu>)

1. Sailer K.,
Elektrosztatika,
(Debrecen, KLTE, 1984).
2. Sailer K.,
Stacionárius áram és mágneses tér,
(Debrecen, KLTE, 1984).
3. Sailer K.,
Az elektromágneses tér,
(Debrecen, KLTE, 1984).
4. Sailer K.,
A relativisztikus húr klasszikus mechanikája,
(Debrecen, KLTE, 1990).
5. Sailer K.,
Statisztikus fizika és termodinamika. I.,
(Debrecen, KLTE, 1991).
6. Sailer K.,
Statisztikus fizika és termodinamika. II.,
(Debrecen, KLTE, 1992);
második, javított kiadás (Debrecen, KLTE, 1994).
7. Sailer K.,
Szimmetriák és megmaradási törvények,
(Budapest, MAFIHE, 1994).
8. Sailer K.,
Nem-egyensúlyi statisztikus fizika,
(Debrecen, KLTE, 1994).
9. Sailer K.,
Szimmetriák és sérülésük a kvantumtérelméletben,
(Debrecen, KLTE, 1994).

10. Sailer K.,
A renormálási csoport a kvantumelméletben
(Debrecen, KLTE, 1997).
11. Sailer K.,
Relativitáselmélet (elektronikus jegyzet),
(Debrecen, KLTE, 1998).
12. Sailer K.,
Statisztikus fizika (elektronikus jegyzet),
(Debrecen, KLTE, 1998).
13. Sailer K.,
Bevezetés a mechanikába (elektronikus jegyzet, piszkozat),
(Debrecen, DE, 2001)
14. Sailer K.,
Bevezetés az elektrodinamikába (elektronikus jegyzet, piszkozat),
(Debrecen, DE, 2002)
15. Sailer K.,
Bevezetés a kvantummechanikába (elektronikus jegyzet, piszkozat),
(Debrecen, DE, 2002)
16. Sailer K.,
Kvantuminformatika, (elektronikus jegyzet)
(Debrecen, DE, 2003)

Oktatási célú közlemények

1. K. Sailer, P. Raics,
Determination of Mn -content in aluminium alloys by absolute thermal neutron activation method using ^{252}Cf neutron source,
IAEA Training Course on Utilization of Neutron generators, Debrecen, 1978. (Laboratory manual).
2. K. Sailer, S. Daróczy,
Determination of the fission cross section for ^{238}U at 14.7 MeV using ionization chamber,
IAEA Training Course on Utilization of Neutron Generators, Debrecen, 1982. (Laboratory manual).
3. Sailer K.,
A maganyag,
ATOMKI Riport X/12 (1984) 217.

4. Sailer K.,
Relativisztikus kvantummechanika,
ATOMKI Riport **X/26** (1986) 181.
5. Sailer K., Trócsányi Z.,
Bevezetés a kölcsönható terek elméletébe,
ATOMKI Riport **X/29** (1987) 3.
6. Sailer K.,
Klasszikus térelmélet és kanonikus kvantálás,
ATOMKI Riport **X/33** (1987) 33.

Ismeretterjesztő közlemények

1. Sailer K.,
Az elektromágneses kölcsönhatás,
KöMaL **35/5** (1985) 226.
2. Lovas E., Lovas I., Sailer K.
A Dirac-egyenlet sajátértékei,
Fizikai Szemle **XXXV** (1985) 329.
3. Sailer K.,
17 keV tömegű neutrínó?,
Fizikai Szemle **1992/11** 441.
4. Kun F., Sailer K.,
Intermittencia nagyenergiás nehézion–ütközésekben,
Fizikai Szemle **1994/7** 290.

Egyéb közlemények

1. Sailer K.,
A Debreceni Egyetem Elméleti Fizikai Tanszéke,
Fizikai Szemle **2004/2** 63.