

Papers published in 1996

General Physics

1. Pál K.F.,
The ground-state of the cubic spin-glass with short-range interactions of Gaussian distribution, *Physica "A"* 233 (1996) 60
2. Pál K.F.,
The ground state energy of the Edwards-Anderson Ising spin glass with a hybrid genetic algorithm, *Physica "A"* 223 (1996) 283
3. Pál K.F.,
Excinction of small populations in the bit-string model of biological ageing, *International Journal of Modern Physics "C"* 7 (1996) 899

Nuclear and Particle Physics

1. Brenner, M., Kallman, K.-M., Máté Z., Vertse T., Zolnai L.,
Cluster effects in the angular distribution of alphas scattered from ^{34}S (Abstr. p.2), *Heavy Ion Physics* 2 (1995) 269
2. Alexander, G., Horváth D., Pálinkás J., et al.,
Measurement of the $\tau^- \rightarrow e^- \nu_e \nu_\tau$ branching ratio, *Physics Letters "B"* 369 (1996) 163
3. Alexander, G., Horváth D., Pálinkás J., et al.,
Search for charged Higgs bosons using the OPAL detector at LEP, *Physics Letters "B"* 370 (1996) 174
4. Alexander, G., Horváth D., Pálinkás J., et al.,
Observation of Y production in hadronic Z^0 decays, *Physics Letters "B"* 370 (1996) 185
5. Alexander, G., Horváth D., Pálinkás J., et al.,
Improved measurement of the lifetime of the Tau lepton, *Physics Letters "B"* 374 (1996) 341
6. Alexander, G., Horváth D., Pálinkás J., et al.,
Measurement of cross-sections and asymmetries in e^+e^- collisions at 130-140 GeV centre-of-mass energy, *Physics Letters "B"* 376 (1996) 232
7. Alexander, G., Horváth D., Pálinkás J., et al.,
Measurements with photonic events in e^+e^- collisions at centre-of-mass energies of 130-140 GeV, *Physics Letters "B"* 377 (1996) 222
8. Alexander, G., Horváth D., Pálinkás J., et al.,
Search for chargino and neutralino production using the OPAL detector at $\sqrt{s} = 130$ -136 GeV at LEP, *Physics Letters "B"* 377 (1996) 181

9. Alexander, G., Horváth D., Pálinkás J., et al.,
A study of four-fermion final states with high multiplicity at LEP, Physics Letters "B" 376 (1996) 315
10. Alexander, G., Horváth D., Pálinkás J., et al.,
Topological search for the production of neutralinos and scalar particles, Physics Letters "B" 377 (1996) 273
11. Alexander, G., Horváth D., Pálinkás J., et al.,
A first measurement of the lambda lambda- and lambda lambda (lambda- lambda-) spin compositions in hadronic Z^0 decays, Physics Letters "B" 384 (1996) 377
12. Alexander, G., Horváth D., Pálinkás J., et al.,
Prompt J/Ψ production in hadronic Z^0 decays, Physics Letters "B" 384 (1996) 343
13. Alexander, G., Horváth D., Pálinkás J., et al.,
Search for excited leptons in e^+e^- collisions at $\sqrt{s} = 130$ and 136 GeV, Physics Letters "B" 386 (1996) 463
14. Alexander, G., Horváth D., Pálinkás J., et al.,
Search for unstable neutral and charged heavy leptons in e^+e^- collisions at $\sqrt{s} = 130$ and 136 GeV, Physics Letters "B" 385 (1996) 433
15. Alexander, G., Horváth D., Pálinkás J., et al.,
Test of the four-fermion contact interaction in e^+e^- collisions at 130 - 140 GeV, Physics Letters "B" 387 (1996) 432
16. Alexander, G., Horváth D., Pálinkás J., et al.,
Measurement of the branching fraction of the radiative decay $\tau^- \rightarrow \mu^- \nu_\mu \nu_\tau \gamma$, Physics Letters "B" 388 (1996) 437
17. Alexander, G., Horváth D., Pálinkás J., et al.,
Test of QCD analytic predictions for the multiplicity ratio between gluon and quark jets, Physics Letters "B" 388 (1996) 659
18. Ackelstaff, K., Horváth D., Pálinkás J., et al.,
Measurement of the mass of the W boson in e^+e^- collisions at $\sqrt{s} = 161$ GeV, Physics Letters "B" 389 (1996) 416
19. Ackelstaff, K., Horváth D., Pálinkás J., et al.,
Search for chargino and neutrino production in e^+e^- collisions at $\sqrt{s} = 161$ GeV, Physics Letters "B" 389 (1996) 616
20. Alexander, G., Horváth D., Pálinkás J., et al.,
Upper limit on the ν_τ mass from $\tau \rightarrow 3h\nu_\tau$ decays, Zeitschrift für Physik "C" 72 (1996) 231
21. ALEPH Collaboration, Delphi Collaboration, L3 Collaboration, OPAL Collaboration, Horváth D., Pálinkás J., et al.,
Combining heavy flavours electroweak measurements at LEP, Nuclear Instruments and Methods in Physics Research "A" 378 (1996) 101
22. Alexander, G., Horváth D., Pálinkás J., et al.,
Test of the exponential decay law at short decay times using τ leptons, Physics Letters "B" 368 (1996) 244
23. Alexander, G., Horváth D., Pálinkás J., et al.,
 J/Ψ and Ψ' production in hadronic Z^0 decays, Zeitschrift für Physik "C" 70 (1996) 197

24. Alexander, G., Horváth D., Pálinkás J., et al.
A comparison of b and uds quark jets to gluon jets, *Zeitschrift für Physik "C"* 69 (1996) 543
25. Alexander, G., Horváth D., Pálinkás J., et al.,
Search for a narrow resonance in Z^0 decays into hadrons and isolated photons, *Zeitschrift für Physik "C"* 71 (1996) 1
26. Alexander, G., Horváth D., Pálinkás J., et al.,
Measurement of heavy quark forward-backward asymmetries and average B mixing using leptons in multihadronic events, *Zeitschrift für Physik "C"* 70 (1996) 357
27. Alexander, G., Horváth D., Pálinkás J., et al.,
QCD studies with e^+e^- annihilation data at 130 and 136 GeV, *Zeitschrift für Physik "C"* 72 (1996) 191
28. Alexander, G., Horváth D., Pálinkás J., et al.,
A study of charm hadron production in $Z^0 \rightarrow c\bar{c}$ and $Z^0 \rightarrow b\bar{b}$ decays at LEP, *Zeitschrift für Physik "C"* 72 (1996) 1
29. Alexander, G., Horváth D., Pálinkás J., et al.,
A precise measurement of the tau polarization and its forward-backward asymmetry at LEP, *Zeitschrift für Physik "C"* 72 (1996) 365
30. Alexander, G., Horváth D., Pálinkás J., et al.,
Multiplicity dependence of Bose-Einstein correlations in hadronic Z^0 decays, *Zeitschrift für Physik "C"* 72 (1996) 389
31. Alexander, G., Horváth D., Pálinkás J., et al.,
A measurement of the B_0 -d oscillation frequency using leptons and D^{*+} mesons, *Zeitschrift für Physik "C"* 72 (1996) 377
32. Alber, T., Gál J., Pálinkás J., et al.
First results from NA49 on Pb + Pb collisions at 158 GeV/nucleon, *Nuclear Physics "A"* 590 (1995) 355
33. Alber, T., Appelshäuser, H., Bachler, J., Bartke, J., Bialkowska, H., Bieser, F., Bloomer, M.A., Blyth, C.O., Bock, R., Bormann, C., Brady, F.P., Brockmann, R., Buncic, P., Caines, H.L., Cebra, D., Chan, P., Cooper, G.E., Cramer, J.G., Cramer, P.B., Csato P., Derado, I., Dunn, J., Eckardt, V., Eckardt, F., Euler, S., Ferguson, M.I., Fischer, H.G., Gál J., Pálinkás J., et al.,
Transverse energy production in $^{208}\text{Pb} + \text{Pb}$ collisions at 158 GeV per nucleon, *Physical Review Letters* 75 (1995) 3814
34. Cseh J., Lévai G., Scheid, W., Schmidt, J.,
New aspects on the $^{12}\text{C} + ^{12}\text{C}$ system, *Revista Mexicana de Fisica (Suppl. 1)* 41 (1995) 109
35. Bouneau, S., Wilson, A.N., Azaiez, F., Sharpey-Schafer, J.F., Korichi, A., Deloncle, I., Porquet, M.G., Timár J., Astier, A., Bergström, M., Bourgeois, C., Ducroux, L., Duprat, J., Gall, B.J.P., Hannachi, F., Kaci, M., Le Coz, Y., Lopez-Martens, A., Meyer, M., Paul, E.S., Perrin, N., Pilotte, S., Redon, N., Riley, M.A., Schuck, C., Sergolle, H., Wyss, R.,
The $i_{13/2}$ proton intruder orbital in the superdeformed ^{193}Tl nucleus: Effective magnetic moment and blocking of proton pairing, *Physical Review "C" Nuclear Physics* 53 (1996) 9
36. Zimmerman, B.E., Walters, W.B., Dombrádi Zs., Gácsi Z., Mantica, P.F., Carter, H.K., Kormicki, J.,
 β^+ decay of 15.2-min ^{114}Te , *Physical Review "C" Nuclear Physics* 53 (1996) 106

37. Takács S., Tárkányi F., Qaim, S.M.,
Excitation function of $^{22}\text{Ne}(p, n)^{22}\text{Na}$ reaction: possibility of production of ^{22}Na at a small cyclotron, *Applied Radiation and Isotopes* 47 (1996) 303
38. Algora, A., Cseh J.,
Cold binary fission and the pseudo-SU(3) symmetry, *Journal of Physics "G"* 22 (1996) 39
39. Liotta, R. J., Maglione, E., Vertse T.,
Microscopic structure and decay characteristics of giant resonances, *Nuclear Physics "A"* 599 (1996) 327
40. Dombrádi Zs., Dankó I., Brant, S., Paar, V.,
Rearrangement of valence neutrons by proton excitation in odd-odd Sb nuclei, *Physical Review "C" Nuclear Physics* 53 (1996) 1244
41. Csótó A., Lovas R.G.,
Comment on "Large-space shell-model calculations for light nuclei", *Physical Review "C" Nuclear Physics* 53 (1996) 1444
42. Beaumel, D., Fortier, S., Galés, S., Guillot, J., Langevin-Joliot, H., Laurent, H., Maison, J.M., Vernotte, J., Bordewijk, J., Brandenburg, S., Krasznahorkay A., Crawley, G.M., Massolo, C.P., Renteria, M., Khendriche, A.,
Decay properties of high-lying single-particles modes, *Nuclear Physics "A"* 599 (1996) 265
43. Baye, D., Lévai G., Sparenberg, J.M.,
Phase-equivalent complex potentials, *Nuclear Physics "A"* 599 (1996) 435
44. Krasznahorkay A., Hunyadi M., Csatlós M., Diószegi I., Gulyás J., Máté Z.,
Evidence for hyperdeformed nuclear shape in ^{236}U , *Acta Physica Polonica "B"* 27 (1996) 139
45. Csótó A., Oberhummer, H., Pichler, R.,
Searching for three-nucleon resonances, *Physical Review "C" Nuclear Physics* 53 (1996) 1589
46. Cederkall, J., Lipoglavšek, M., Palacz, M., Persson, J., Atac, A., Fahlander, C., Grawe, H., Johnson, A., Klamra, W., Kownacki, J., Likar, A., Norlin, L.-O., Nyberg, J., Schubart, R., Seweryniak, D., De Angelis, G., Bednarczyk, P., Dombrádi Zs., Foltescu, D., Jerrestam, D., Juutinen, S., Makela, E., Nyakó B.M., Perez, G.E., De Poli, M., Roth, H.A., Schizuma, T., Skeppstedt, Ö., Sletten, G., Türmanen, G.,
First evidence for excited states in ^{101}In , *Physical Review "C" Nuclear Physics* 53 (1996) 1955
47. Blomqvist, J., Civitarese, O., Kirchuk, E.D., Liotta, R. J., Vertse T.,
Feeding of hole states by proton decay of Gamow-Teller and isobaric analog state resonances, *Physical Review "C" Nuclear Physics* 53 (1996) 2001
48. Csótó A., Langanke, K.,
Parity-violating alpha-decay of the 3.56 MeV $J^\pi, T = 0^+$, 1 state of ^6Li , *Nuclear Physics "A"* 601 (1996) 131
49. Sohler D., Algora, A., Fényes T., Gulyás J., Brant, S., Paar, V.,
Structure of ^{72}As nucleus, *Nuclear Physics "A"* 604 (1996) 25
50. Fülöp Zs., Lévai G., Somorjai E., Kiss A.Z., Cseh J., Tikkanen, P., Keinonen, J.,
A comprehensive study of the $^{34}\text{S} + \alpha$ system, *Nuclear Physics "A"* 604 (1996) 286

51. Mahunka I., Andó L., Mikecz P., Tcheltsov, A.N., Suvorov, I.A.,
Iodine-123 production at a small cyclotron for medical use, *Journal of Radioanalytical and Nuclear Chemistry, Letters* 213 (1996) 135
52. Lévai G., Del Sol Mesa, A.,
On some solutions of the Dirac equation, *Journal of Physics "A"* 29 (1996) 2827
53. Stewart, T.L., Kermode, M.W., Beachey, D.J., Rowley, N., Grant, I.S., Kruppa A.T.,
Alpha decay of deformed actinide nuclei, *Physical Review Letters* 77 (1996) 36
54. Takács S., Tárkányi F., Kovács Z.,
Excitation function of α -particle induced nuclear reactions on natural nickel, *Nuclear Instruments and Methods in Physics Research "B"* 113 (1996) 424
55. Fülöp Zs., Kiss A.Z., Somorjai E., Rolfs, C.E., Trautvetter, H.P., Rauscher, T., Oberhummer, H.,
 $^{70}\text{Ge}(\alpha, \gamma)^{74}\text{Se}$ cross section measurements at energies of astrophysical interest, *Zeitschrift für Physik "A"* 355 (1996) 203
56. Lévai G., Cseh J.,
Consistent semimicroscopic algebraic description of core + α -particle systems in the $A = 16$ to 20 region, *Physics Letters "B"* 381 (1996) 1
57. Glozman, L.Ya., Papp Z., Plessas, W.,
Light baryons in a constituent quark model with chiral dynamics, *Physics Letters "B"* 381 (1996) 311
58. Arai, K., Ogawa, Y., Suzuki, Y., Varga K.,
Structure of the mirror nuclei ^9Be and ^9B in a microscopic cluster model, *Physical Review "C" Nuclear Physics* 54 (1996) 132
59. Semple, A.T., Nolan, P.J., Beausang, C.W., Forbes, S.A., Paul, E.S., Wilson, J.N., Wadsworth, R., Hauschild, K., Clark, R.M., Foin, C., Genevey, J., Gizon, J., Gizon, A., Pinston, J., Santos, D., Nyakó B.M., Zolnai L., Klamra, W., Simpson, J.,
Excited superdeformed band in ^{131}Ce , *Physical Review "C" Nuclear Physics* 54 (1996) 425
60. Gizon, A., Genevey, J., Bucurescu, D., Cata-Danil, Gh., Gizon, J., Inchaouh, J., Barnöoud, D., von Egidy, T., Liang, C.F., Nyakó B.M., Paris, P., Penev, I., Plochocki, A., Ruchowska, E., Ur, C.A., Weiss, B., Zolnai L.,
Level structures of $^{131,129}\text{Ce}$ observed in beta decay, *Nuclear Physics "A"* 605 (1996) 301
61. Rossi Alvarez, C., Vretenar, D., Podolyák Zs., Bazzacco, D., Bonsignori, G., Brandolini, F., Brant, S., De Angelis, G., De Poli, M., Ionescu-Bujor, M., Li, Y., Lunardi, S., Medina, N.H., Petrache, C.M.,
Excited states in ^{139}Sm described with the interacting boson model plus broken pairs, *Physical Review "C" Nuclear Physics* 54 (1996) 57
62. Wilson, A.N., Timár J., Sharpey-Schafer, J.F., Crowell, B., Carpenter, M.P., Janssens, R.V.F., Blumenthal, D.J., Ahmad, I., Astier, A., Azaiez, F., Bergström, M., Ducroux, L., Gall, B.J.P., Hannachi, F., Khoo, T.L., Korichi, A., Lauritsen, T., Lopez-Martens, A., Meyer, M., Nisius, D., Paul, E.S., Porquet, M.G., Redon, N., Wilson, J.N., Nakatsukasa, T.,
Collective and quasiparticle excitations in superdeformed ^{190}Hg , *Physical Review "C" Nuclear Physics* 54 (1996) 559

63. Csótó A., Karataglidis, S.,
Low-energy M1 strength in the ${}^7\text{Li}(p, \gamma){}^8\text{Be}$ reaction, Nuclear Physics "A" 607 (1996) 62
64. Brown, B.A., Csótó A., Sherr, R.,
Coulomb displacement energy and the low-energy astrophysical S17 factor for the ${}^7\text{Be}(p, \gamma){}^8\text{B}$ reaction, Nuclear Physics "A" 597 (1996) 66
65. Lipoglavšek, M., Górska, M., Nyberg, J., Atac, A., Axelsson, A., Bark, R.A., Blomqvist, J., Cederkall, J., Cederwall, B., De Angelis, G., Fahlander, C., Grawe, H., Johnson, A., Leoni, S., Likar, A., Matiuzzi, M., Mitarai, S., Norlin, L.-O., Palacz, M., Persson, J., Roth, H.A., Schubart, R., Seweryniak, D., Shizuma, T., Skeppstedt, Ö., Sohler D., Sletten, G., Walters, W.B., Weiszflog, M.,
In-beam study of ${}^{102}\text{Sn}$, Zeitschrift für Physik "A" 356 (1996) 239
66. Hess, P.O., Lévai G., Cseh J.,
Geometrical interpretation of the semimicroscopic algebraic cluster model, Physical Review "C" Nuclear Physics 54 (1996) 2345
67. Liotta, R. J., Maglione, E., Sandulescu, N., Vertse T.,
A representation to describe nuclear processes in the continuum, Physics Letters "B" 367 (1996) 1
68. Buda, A., Bacelar, J.C., Balanda, A, Krasznahorkay A., Van der Ploeg, H., Sujkowski, Z., Van der Woude, A.,
Dilepton decay from excited states in ${}^{28}\text{Si}$ populated via different isospin entrance channels, Physical Review "C" Nuclear Physics 53 (1996) 157
69. Stewart, T.L., Kermode, M.W., Beachey, D.J., Rowley, N., Grant, I.S., Kruppa A.T.,
Alpha-particle decay through a deformed barrier, Nuclear Physics "A" 611 (1996) 332
70. Lipoglavšek, M., Cederkall, J., Palacz, M., Persson, J., Atac, A., Blomqvist, J., Fahlander, C., Grawe, H., Johnson, A., Kerek, A., Klamra, W., Kownacki, J., Likar, A., Norlin, L.-O., Nyberg, J., Schubart, R., Seweryniak, D., De Angelis, G., Bednarczyk, P., Dombrádi Zs., Foltescu, D., Jerrestam, D., Juutinen, S., Makela, E., Perez, G.E., De Poli, M., Roth, H.A., Shizuma, T., Vass T., et al.,
Stability of ${}^{100}_{50}\text{Sn}^{50}$ deduced from excited states in ${}^{99}_{48}\text{Cd}^{51}$, Physical Review Letters 76 (1996) 888
71. Suzuki, Y., Arai, K., Ogawa, Y., Varga K.,
Occupation probability of harmonic-oscillator quanta for microscopic cluster-model wave functions, Physical Review "C" Nuclear Physics 54 (1996) 2073
72. Hoogduin, J.M., Ditzel, E., Balanda, A, de Boer, F.W.N., Bokemeijer, H., Gerl, J., Heyde, K., Klinken, J.v., Krasznahorkay A., Salabura, P., Wollersheim, H.J.,
On the two first excited $K = 0$ bands in ${}^{238}\text{U}$ and ${}^{240}\text{Pu}$, Physics Letters "B" 384 (1996) 43
73. Persson, J., Cederkall, J., Lipoglavšek, M., Palacz, M., Atac, A., Bomqvist, J., Fahlander, C., Grawe, H., Johnson, A., Kerek, A., Klamra, W., Kownacki, J., Likar, A., Norlin, L.-O., Nyberg, J., Schubart, R., Seweryniak, D., De Angelis, G., Bednarczyk, P., Dombrádi Zs., Foltescu, D., Jerrestam, D., Juutinen, S., Makela, E., Perez, G.E., De Poli, M., Roth, H.A., Shizuma, T., Vass T., et al.,
New spectroscopic data on ${}^{102}\text{Cd}$, Acta Physica Polonica "B" 27 (1996) 171

Atomic Physics

1. Schiwietz, G., Xiao, G., Grande, P.L., Skogvall, B., Köhrbrück, R., Sulik B., Sommer, K., Schmoldt, A., Stettner, U., Salin, A.,
Double ionization of helium by 40 MeV protons, *Europhysics Letters* 27 (1994) 341
2. Tőkési K., Varga D., Kövér L., Mukoyama, T.,
Monte Carlo modelling of the backscattered electron spectra of silver at the 200 eV and 2 KeV primary electron energies, *Journal of Electron Spectroscopy and Related Phenomena* 76 (1995) 427
3. Kageyama, H., Takahashi, R., Hamaguchi, D., Awata, T., Nakae, T., Nishihata, A., Kawatsura, K., Arai, S., Aoki, Y., Yamamoto, S., Takeshita, H., Goppelt-Langer, P., Naramoto, H., Kambara, T., Oura, M., Papp T., Kanai, Y., Awaya, Y., Horino, Y., Mokuno, Y., Chayahara, A., Kinomura, A., Tsubouchi, N., Fujii, K.,
High resolution L X-ray emission spectra of Fe and Cu induced by 0.75 MeV/u ion impact, *International Journal of PIXE* 5 (1995) 203
4. Tőkési K., Hock G.,
Double electron capture in $\text{He}^{2+} + \text{He}$ collisions up to 1500 keV/amu projectile impact, *Journal of Physics "B"* 29 (1996) 119
5. Víkor L., Sarkadi L., Báder A., Penent, F., Pálinkás J., Berényi D.,
Study of cusp electron production at impact of C^+ ions, *Nuclear Instruments and Methods in Physics Research "B"* 107 (1996) 79
6. Báder A., Brinkmann, U., Sarkadi L., Takács E., Hippler, R., Pálinkás J.,
Observation of convoy electrons induced by Rutherford-scattered protons, *Nuclear Instruments and Methods in Physics Research "B"* 107 (1996) 6
7. Kageyama, H., Kawatsura, K., Takahashi, R., Awata, T., Nakae, T., Arai, S., Kambara, T., Oura, M., Papp T., Kanai, Y., Awaya, Y., Takeshita, H., Aoki, Y., Yamamoto, S., Goppelt-Langer, P., Naramoto, H., Horino, Y., Mokuno, Y., Fujii, K.,
L X-ray spectra of Fe and Cu by 0.75 MeV/u H, He, Si and Ar ion impacts, *Nuclear Instruments and Methods in Physics Research "B"* 107 (1996) 47
8. Kövér Á., Varga D., Cserny I., Szmola E., Móri Gy., Gulyás L., Tőkési K.,
A distorted field cylindrical mirror electron analyzer II. Performances and application for studying ion-atom collisions, *Nuclear Instruments and Methods in Physics Research "A"* 373 (1996) 51
9. Biri S., Báder A., Pálinkás J.,
A simple model to describe ion source extraction optics – Simulations and experimental test, *Review of Scientific Instruments* 67 (1996) 1483
10. Petukhov, V.P., Török I., Terasawa, M.,
High resolution PIXE instrumentation survey. Part III., *Nuclear Instruments and Methods in Physics Research "B"* 109 (1996) 105
11. Sarkadi L., Mukoyama, T., Šmit, Ž.,
Investigation of the vacancy sharing process in L-shell ionization of gold and bismuth by boron ions, *Journal of Physics "B"* 29 (1996) 2253

12. Víkor L., Sarkadi L., Tőkési K., Varga D., Penent, F., Pálincás J.,
An electrostatic lens for zero-degree electron spectroscopy, Nuclear Instruments and Methods in Physics Research "B" 114 (1996) 164
13. Török I., Papp T., Pálincás J., Budnar, M., Mühleisen, A., Kawai, J., Campbell, J.L.,
Relative intensity of the $K\beta_5$ X-ray line, Nuclear Instruments and Methods in Physics Research "B" 114 (1996) 9
14. Wang, J., Olson, R.E., Cornelius, K., Tőkési K.,
Slow convergence to n^4 -scaling of cross sections in electron capture from Rydberg states, Journal of Physics "B" 29 (1996) 537
15. Takács E., Meyer, E.S., Gillaspy, J.D., Roberts, J.R., Chantler, C.T., Hudson, L.T.,
Deslattes, R.D., Brown, C.M., Laming, I.M., Dubau, J., Inal, M.K.,
Polarization measurements on a magnetic quadrupole line in Ne-like barium, Physical Review "A" 54 (1996) 1342
16. Fainstiein, P.D., Gulyás L., Martín, F., Salin, A.,
Angular asymmetry of low-energy electron emission in ion-atom collisions, Physical Review "A" 53 (1996) 3243
17. Finch, R.M., Kövér Á., Charlton, M., Laricchia, G.,
Differential cross-section measurements in positron-argon collisions, Canadian Journal of Physics 74 (1996) 505
18. Finch, R.M., Kövér Á., Charlton, M., Laricchia, G.,
Positron-argon elastic, positronium formation and ionizing collisions at 60 degree, Journal of Physics "B" 29 (1996) 667
19. Vámosi J., Biri S.,
TrapCAD – program to model magnetic traps of charged particles, Computer Physics Communications 98 (1996) 215
20. Víkor L., Sarkadi L., Penent, F., Báder A., Pálincás J.,
Single- and double-electron detachment from H^- in collisions with He, Physical Review "A" 54 (1996) 2161
21. Papp T., Campbell, J.L.,
On the accuracy of the L-Shell ionization cross sections for proton impact. I. Spectrum fitting, Nuclear Instruments and Methods in Physics Research "B" 114 (1996) 225
22. McLaughlin, D.J., Hahn, Y., Takács E., Meyer, E.S., Gillaspy, J.D.,
Relative and inner-shell dielectric recombination in a highly charged barium ion, Physical Review "A" 54 (1996) 2040
23. Kovács Zs., Kövér L., Weightman, P., Varga D., Sanjinés, R., Pálincás J., Margaritondo, G., Adachi, H.,
Electronic structure of Al_3Ni and $AlNi_3$ alloys, Physical Review "B" 54 (1996) 8501
24. Kövér L., Siegbahn, K.,
Charged particle spectrometers, UPTEC 96095R (Institute of Technology, Uppsala University) (1996) 1
25. Víkor Gy., Ricz S., Kövér Á., Sulik B., Tóth L., Kádár I.,
Ion-electron coincidence extensions for an electrostatic electron spectrometer, Nuclear Instruments and Methods in Physics Research "A" 381 (1996) 86

26. Víkor Gy., Ricz S., Sulik B., Tóth L., Kövér Á., Végh J.,
Strong projectile-energy dependence of the Auger-line intensity at 0 degree due to Coulomb focusing in fast proton-neon collisions, *Journal of Physics "B"* 29 (1996) 787
27. Némethy A., Kövér L., Cserny I., Varga D., Barna P.B.,
The KLL and KLM Auger spectra of 3d transition metals, $Z = 23-26$, *Journal of Electron Spectroscopy and Related Phenomena* 82 (1996) 31
28. Varga K., Suzuki, Y.,
Stochastic variational method with a correlated Gaussian basis, *Physical Review "A"* 53 (1996) 1907
29. Fainstiein, P.D., Gulyás L., Salin, A.,
Impact parameter dependence of the ionisation probability in the CDW-EIS approximation, *Journal of Physics "B"* 29 (1996) 1225
30. Tőkési K., Kövér Á.,
Calculation of cross sections for positron-Ar collisions, *Journal of Radioanalytical and Nuclear Chemistry, Articles* 211 (1996) 261

Materials Science and Analysis

1. Tőkési K., Varga D., Kövér L., Mukoyama, T.,
Monte Carlo modelling of the backscattered electron spectra of silver at the 200 eV and 2 KeV primary electron energies, *Journal of Electron Spectroscopy and Related Phenomena* 76 (1995) 427
2. Varga D., Tőkési K., Rajta I.,
Design of an electrostatic electron spectrometer for simultaneous energy and angular distribution measurements, *Journal of Electron Spectroscopy and Related Phenomena* 76 (1995) 433
3. Hegman N., Vad K., Mászáros S., Halász G.,
RF to DC conversion in Bi(Pb)Sr Ca Cu O screen printed films, *Advances in Science and Technology* 8 (1995) 763
4. Harasztosi L., Beke D.L., Daróczy L., Kis-Varga, M., Dudás A.,
Measuring systems for investigations of magnetic properties of nanocrystalline samples, *Acta Physica et Chimica Debrecina* 30 (1995) 7
5. Kageyama, H., Takahashi, R., Hamaguchi, D., Awata, T., Nakae, T., Nishihata, A., Kawatsura, K., Arai, S., Aoki, Y., Yamamoto, S., Takeshita, H., Goppelt-Langer, P., Naramoto, H., Kambara, T., Oura, M., Papp T., Kanai, Y., Awaya, Y., Horino, Y., Mokuno, Y., Chayahara, A., Kinomura, A., Tsubouchi, N., Fujii, K.,
High resolution L X-ray emission spectra of Fe and Cu induced by 0.75 MeV/u ionimpact, *International Journal of PIXE* 5 (1995) 203
6. Báder A., Brinkmann, U., Sarkadi L., Takács E., Hippler, R., Pálinkás J.,
Observation of convoy electrons induced by Rutherford-scattered protons, *Nuclear Instruments and Methods in Physics Research "B"* 107 (1996) 6

7. Takács S., Tárkányi F., Qaim, S.M.,
Excitation function of $^{22}\text{Ne}(p, n)^{22}\text{Na}$ reaction: possibility of production of ^{22}Na at a small cyclotron, *Applied Radiation and Isotopes* 47 (1996) 303
8. Tőkési K., Némethy A., Kövér L., Varga D., Mukoyama, T.,
Modelling of electron scattering in thin manganese films on silicon by Monte Carlo methods, *Journal of Applied Physics* 79 (1996) 3763
9. Rajta I., Borbély-Kiss I., Móri Gy., Bartha L., Koltay E., Kiss A.Z.,
The new Atomki scanning proton microprobe, *Nuclear Instruments and Methods in Physics Research "B"* 109 (1996) 148
10. Petukhov, V.P., Török I., Terasawa, M.,
High resolution PIXE instrumentation survey. Part III., *Nuclear Instruments and Methods in Physics Research "B"* 109 (1996) 105
11. Mahunka I., Ditrói F.,
Summary report on the activity of the CRP project. No. 302-F2-HUN-6962 from 1992-1996, Report of the Co-ordination Meeting of the Co-ordinated Research Programme on "Nuclear Methods in Monitoring Wear and Corrosion in Industry". Ed.: I.Thereska. Vienna, IAEA (1996) 2
12. Ditrói F., Mahunka I.,
Investigation of the implantation profile by using the $^9\text{Be}(^3\text{He}, \alpha n)^7\text{Be}$ reaction for thin layer activation and wear measurement, Report of the Co-ordination Meeting of the Co-ordinated Research Programme on "Nuclear Methods in Monitoring Wear and Corrosion in Industry". Ed.: I.Thereska. Vienna, IAEA (1996) 5
13. Ditrói F., Mahunka I.,
Thin layer activation of non-metallic materials by using nuclear implantation, *Nuclear Instruments and Methods in Physics Research "B"* 113 (1996) 415
14. Takács S., Tárkányi F., Kovács Z.,
Excitation function of alpha-particle induced nuclear reactions on natural nickel, *Nuclear Instruments and Methods in Physics Research "B"* 113 (1996) 424
15. Reményi G., Saint-Paul, M., Hegman N., Monceau, P., Dhalenne, G., Revcolevschi, A.,
Ultrasonic study of magnetoelastic effects in the spin-Peierls state of CuGeO_3 , *Czechoslovak Journal of Physics* 46 (1996) 1957
16. Reményi G., Sahling, S., Lasjaunias, J.C., Hegman N., Monceau, P., Dhalenne, G., Revcolevschi, A.,
Heat capacity of the spin-Peierls compound CuGeO_3 under magnetic field up to 22 T, *Czechoslovak Journal of Physics* 46 (1996) 1959
17. Sahling, S., Reményi G., Lasjaunias, J.C., Hegman N., Dhalenne, G., Revcolevschi, A.,
Heat capacity of the spin-Peierls compound CuGeO_3 , *Physica "B"* 219 (1996) 110
18. Rajta I., Borbély-Kiss I., Móri Gy., Bartha L., Koltay E., Kiss A.Z., Szöör Gy.,
The Debrecen scanning proton microprobe facility and its applications to geological samples, *Nuclear Instruments and Methods in Physics Research "B"* 118 (1996) 437
19. Papp T., Campbell, J.L.,
On the accuracy of the L-shell ionization cross sections for proton impact. I. Spectrum fitting, *Nuclear Instruments and Methods in Physics Research "B"* 114 (1996) 225

20. Kovács Zs., Kövér L., Weightman, P., Varga D., Sanjinés, R., Pálinkás J., Margaritondo, G., Adachi, H.,
Electronic structure of Al₃Ni and AlNi₃ alloys, *Physical Review "B"* 54 (1996) 8501
21. Kövér L., Barna P.B., Sanjinés, R., Kovács Zs., Margaritondo, G., Adamik M., Radi Zs.,
Chemical state analysis of surface and interface segregates in coevaporated Al-Sn-O systems, *Thin Solid Films* 281 (1996) 90
22. Némethy A., Kövér L., Cserny I., Varga D., Barna P.B.,
The KLL and KLM Auger spectra of 3d transition metals, Z = 23-26, *Journal of Electron Spectroscopy and Related Phenomena* 82 (1996) 31
23. Hunyadi M., Gulácsi Zs.,
Exact partition and pair-correlation functions for an Ising model with mirror-image-type interactions, *Physical Review "B"* 53 (1996) 2326
24. Ali, A.E., Bacsó J.,
Investigation of different types of filters for atmospheric trace elements analysis by three analytical techniques, *Journal of Radioanalytical and Nuclear Chemistry, Articles* 209 (1996) 147
25. Kis-Varga M., Beke D.L.,
Phase transitions in Cu-Sb systems induced by ball milling, *Materials Science Forum* 225 (1996) 465

Earth and Cosmic Sciences, Environmental Research

1. Hámor T., Hertelendi E.,
S,O,C isotopes signatures of the Ilate Miocene Pannonian lake, *Acta Geologica Hungarica Supplement* 39 (1996) 86
2. Hámor-Vidó M., Hertelendi E.,
The effects of early diagenesis on organic stable carbon isotope ratio changes and maceral composition of Miocene lignites in N-Hungary, *Acta Geologica Hungarica Supplement* 39 (1996) 69
3. Hertelendi E., Svingor É., Rank, D., Futó I.,
The origin of the water in Lake of Vrana, *Acta Geologica Hungarica Supplement* 39 (1996) 73
4. Hertelendi E., Svingor É.,
Carbon and oxygen isotope ratios in carbonates deposited from hot water emerged from a well Demjén No. 42, *Acta Geologica Hungarica Supplement* 39 (1996) 71
5. Vető I., Hertelendi E.,
Sulphure isotope ratios in the laminated Tard Clay (lower Oligocene of Hungary) reflect a salinity cycle, *Acta Geologica Hungarica Supplement* 39 (1996) 204

6. Živković, P., Knežević, V., Karamata, S., Pécskay Z., Cvetković, V., Remišić, K.,
Petrogenesis of magmatic rocks of the Coka Marin area (TMC), Terranes of Serbia, the formation of the Geologic Framework of Serbia and the adjacent regions. Ed.: V. Knežević-Dorđević, B. Krstić. Beograd, Faculty of Mining and Geology, University of Beograd (1996) 109
7. Fedkin, V., Karamata, S., Cvetković, V., Balogh K.,
Two stories of metamorphism presented by amphibolites from two different terranes of Serbia, Terranes of Serbia, the formation of the Geologic Framework of Serbia and the adjacent regions. Ed.: V. Knežević-Dorđević, B. Krstić. Beograd, Faculty of Mining and Geology, University of Beograd (1996) 145
8. Borbély-Kiss I., Koltay E., Szabó Gy.,
Elemental composition of urban aerosol collected in Debrecen, Nuclear Instruments and Methods in Physics Research "B" 109 (1996) 445
9. Orliczký, O., Balogh K., Konečný, V., Lexa, J., Túnyi, I., Vass, D.,
Paleomagnetism and radiometric ages of basalts of Central and Southern Slovakia (Western Carpathians), *Geologica Carpathica* 47 (1996) 21
10. Pamić, J., Pécskay Z.,
Geological and K-Ar ages of Tertiary volcanic formations from the Southern part of the Pannonia Basin in Croatia based on surface and subsurface data, *Nafta* 47 (1996) 195
11. Balogh K., Konečný, V., Orliczký, O., Lexa, J., Vass, D.,
Method, experiences and results of K-Ar dating of alkali basalt volcanism in central and southern Slovakia (West Carpathians), *Acta Geologica Hungarica Supplement* 39 (1996) 8
12. Palinkaš, A.L., Balogh K., Bermanec, V., Zebec, V.S., Svingor É.,
On use of hyalophane for K-Ar dating in the Central Bosnian Schists Mts., *Acta Geologica Hungarica Supplement* 39 (1996) 149
13. Rajta I., Borbély-Kiss I., Móri Gy., Bartha L., Koltay E., Kiss A.Z., Szőör Gy.,
The Debrecen scanning proton microprobe facility and its applications to geological samples, *Nuclear Instruments and Methods in Physics Research "B"* 118 (1996) 437
14. Uray I.,
Low dose personal dosimetry using commercial LIF detectors *Radiation Protection Dosimetry* 66 (1996) 53
15. Carannante, G., Hertelendi E., Mindszenty A., Simone, L.,
Paleohydrological features at a regional unconformity. Sedimentological observations supported by stable isotopes analyses examples from the Cretaceous of Campania (S. Apennines), *Acta Geologica Hungarica Supplement* 39 (1996) 15
16. Ali, A.E., Bacsó J.,
Investigation of different types of filters for atmospheric trace elements analysis by three analytical techniques, *Journal of Radioanalytical and Nuclear Chemistry, Articles* 209 (1996) 147
17. Lelkesné Félvári Gy., Árkai P., Sassi, F.P., Balogh K.,
Main features of the regional metamorphic events in Hungary: a review, *Geologica Carpathica* 47 (1996) 257

18. Cserny T., Hertelendi E., Tarján S.,
Environmental isotope study of Lake Balaton, *Acta Geologica Hungarica Supplement* 39 (1996) 22
19. Hakl J., Géczy G., Várhegyi A., Csige I., Hunyadi I.,
Experimental study in caves, *Environment International* 22 (1996) 433
20. Hakl J., Hunyadi I., Csige I., Vásárhelyi A., Somlai J., Faludi G., Varga K.,
Determination of dissolved radon and radium content of water samples by track etch method, *Environment International* 22 (1996) 315
21. Géczy G., Hunyadi I., Hakl J., Csige I.,
Barlangterápia lehetőségei Magyarországon, *Környezeti ártalmak és a légzőrendszer*. Szerk.: Szabó T., Miriszlai E. Zalaegerszeg, Szentmihályi Nyomda 6 (1996) 45
22. Kertész Zs., Hunyadi I., Borbély-Kiss I., Géczy G.,
Antropogén szennyezők nyomai a Szemlőhegyi-barlang levegőjében, *Környezeti ártalmak és a légzőrendszer*. Szerk.: Szabó T., Miriszlai E. Zalaegerszeg, Szentmihályi Nyomda 6 (1996) 93
23. Várhegyi A., Hakl J.,
A hazai geológiai viszonyok sajátosságai és az ebből eredő radon-expozíció lehetőségei, *Környezeti ártalmak és a légzőrendszer*. Szerk.: Szabó T., Miriszlai E. Zalaegerszeg, Szentmihályi Nyomda 6 (1996) 252
24. Várhegyi A., Hakl J.,
Beszámoló a Cserszegtomaji-kútbarlangban 1996-ban végzett radiometriai mérésekről, *Környezeti ártalmak és a légzőrendszer*. Szerk.: Szabó T., Miriszlai E. Zalaegerszeg, Szentmihályi Nyomda 6 (1996) 266
25. Szabados Cs., Árva-Sós E.,
Ages of the so-called Bostonite rocks in the Mórág Hill, *Acta Mineralogica Petrographica*, Szeged 37 (1996) 161
26. Nefedov, N., Csige I., Benton, E.V., Frank, A.L., Frigo, L.A., Benton, E.R.,
Particle directionality and trapped proton fluences on LDEF, *Radiation Measurements* 26 (1996) 881
27. Benton, E.R., Benton, E.V., Frank, A.L., Frigo, L.A., Csige I.,
Secondary particle contribution to LET spectra on LDEF, *Radiation Measurements* 26 (1996) 793
28. Benton, E.V., Frank, A.L., Csige I., Frigo, L.A., Benton, E.R.,
LET spectra measurements on LDEF: variations with shielding and locations, *Radiation Measurements* 26 (1996) 783
29. Lakatos I., Bauer K., Lakatos-Szabó J., Csige I., Koch S., Kretschmar, H.-J.,
A radon diffúziójának vizsgálata polimer/szilikát gélekben és tömény agyagszuszpenziókban, *Magyar Kémiai Folyóirat* 102 (1996) 491

Biological and Medical Research

1. Raschi, A., Tognetti, R., Ridder, H.-W., Béres Cs., Fenyvesi A.,
The use of computer tomography in the study of pollution effects on oak trees, *Agricultura Mediterranea, Special Volume (Responses of Plants to Air Pollution)* (1995) 298
2. Tognetti, R., Raschi, A., Béres Cs., Fenyvesi A., Ridder, H.-W.,
Comparison of sap-flow, cavitation and water status of *Quercus petraea* and *Quercus cerris* trees with special reference to computer tomography, *Plant, Cell and Environment* 19 (1996) 928

Development of Instruments and Methods

1. Varga D., Tókési K., Rajta I.,
Design of an electrostatic electron spectrometer for simultaneous energy and angular distribution measurements, *Journal of Electron Spectroscopy and Related Phenomena* 76 (1995) 433
2. Arefiev, A., Bencze Gy.L., Bizzeti, A., Choumilov, E., Civinini, C., D'Alessandro, R., Dajkó G., Fenyvesi A., Ferrando, A., Fouz, M.C., Iglesias, A., Ivochkin, V., Maggi, F., Malinin, A., Martinez-Laso, L., Meschini, M., Molnár J., Pojidaev, V., Szoncsó, F., Wulz, C.-E.,
Parallel plate chambers and their possible use in LHC experiments, *Nuclear Physics "B" Supplement* 44 (1995) 222
3. Bacsó J., Kiss J., Uzonyi I.,
Development of an automatic sample changer equipment to Si(Li) x-ray spectrometers, *Journal of Trace and Microprobe Techniques* 14 (1996) 137
4. Petukhov, V.P., Török I., Terasawa, M.,
High resolution PIXE instrumentation survey. Part III., *Nuclear Instruments and Methods in Physics Research "B"* 109 (1996) 105
5. Bartha L., Koltay E., Móri Gy.,
Abrasive blast cleaning method for the renewal of worn-out acceleration tubes, *Nuclear Instruments and Methods in Physics Research "B"* 111 (1996) 157
6. Arefiev, A., Bencze Gy.L., Bizzeti, A., Choumilov, E., Civinini, C., Dajkó G., D'Alessandro, R., Fenyvesi A., Ferrando, A., Fouz, M.C., Iglesias, A., Ivochkin, V., Josa, M.I., Malinin, M., Meschini, M., Molnár J., Pojidaev, V., Salicio, J.M., Tanko, L., Vesztergombi G.,
First results on irradiation of ceramic parallel plate chambers with gammas and neutrons, *Nuclear Instruments and Methods in Physics Research "A"* 373 (1996) 43
7. Víkor L., Sarkadi L., Tókési K., Varga D., Penent, F., Pálinkás J.,
An electrostatic lens for zero-degree electron spectroscopy, *Nuclear Instruments and Methods in Physics Research "B"* 114 (1996) 164
8. Papp Z., Plessas, W.,
Coulomb-Sturmian separable expansion approach: Three-body Faddeev calculations for Coulomb-like interactions, *Physical Review "C" Nuclear Physics* 54 (1996) 50

9. Lakatos T., Hegyesi Gy., Kalinka G.,
A simple pulsed drain feedback preamplifier for high resolution high rate nuclear spectroscopy, *Nuclear Instruments and Methods in Physics Research "A"* 378 (1996) 583
10. Arefiev, A., Bencze Gy.L., Bizzeti, A., Choumilov, E., Civinini, C., Dajkó G., D'Alessandro, R., Fenyvesi A., Ferrando, A., Fouz, M.C., Iglesias, A., Ivochkin, V., Josa, M.I., Malinin, M., Meschini, M., Molnár J., Pojidaev, V., Salicio, J.M., Siklór F., Vesztergombi G.,
Recent studies of parallel plate chambers for LHC experiments, *Scientifica Acta Quaderni del Dottorato* 11 (1996) 359
11. Vámosi J., Biri S.,
TrapCAD – program to model magnetic traps of charged particles, *Computer Physics Communications* 98 (1996) 215
12. Papp T., Campbell, J.L.,
On the accuracy of the L-Shell ionization cross sections for proton impact. I. Spectrum fitting, *Nuclear Instruments and Methods in Physics Research "B"* 114 (1996) 225
13. Lindblad, Th., Székely G., Padgett, M.L., Eide, J., Lindsey, C.S.,
Implementing the dynamic adjustment algorithm in a CNAPS parallel computer system, *Nuclear Instruments and Methods in Physics Research "A"* 381 (1996) 502
14. Bohátka S.,
Tömegspektrometria a folyamatellenőrzésben és -szabályozásban, *Magyar Kémikusok Lapja* 51 (1996) 181
15. Hakl J., Géczy G., Várhegyi A, Csige I., Hunyadi I.,
Experimental study in caves, *Environment International* 22 (1996) 433
16. Hakl J., Hunyadi I., Csige I., Vásárhelyi A., Somlai J., Faludi G., Varga K.,
Determination of dissolved radon and radium content of water samples by track etch method, *Environment International* 22 (1996) 315
17. Biri S., Vámosi J.,
Design aspects of the Debrecen ECR ion source, *Review of Scientific Instruments* 67 (1996) 971