

### A. Unpublished texts, manuscripts under revision and submissions

1. Potentials (Coulomb + polynomial) and the use of their partial solvability in perturbation theory  
(preprint REZ-TH-15/92), unpublished.
2. An extrapolation of perturbation series towards nonperturbative exact solutions for Coulomb + polynomial potentials,  
JMP, under revision
3. Sextic anh. oscillator and PT with 2 zero-order Hamiltonians,  
PLA, under revision
4. Relativistic kinetic energy as an operator continued fraction  
J. Phys. A, under revision
5. Quasi-exact solvability as an anti-Lanczosean termination  
Toronto, Canada, unpublished (Olver)
6. Multiple anharmonicities and a perturbative generalization of the HDM  
26. 7. 96 PRL, no 28. 10.
7. A double valley pot. ... and its ex. and pert. solvability  
16. 12. 1996 PLA Ho 1583, 20. 8. hovno
8. Rational anharmonicities and perturbation theory in the intermediate-coupling regime: I. Zero order and exceptional couplings  
28. 11. 1996, JPA, 22. 4. rev., no 8. 10. multiple misunderstanding
9. Rational anharmonicities and perturbation theory in the intermediate-coupling regime: II. Corrections via recurrences  
15. 5. JPA, no 8. 10., multiple misunderstanding
10. The problem of tunnelling and the novel perturbation formalism  
10. 6. 1997, JMP, 3. 7. declined as ‘numerical’
11. Perturb. Th. for potentials with discontinuities  
7. 7. 97, PLA, Ho 1919, 1. 9. unjustly declined as ‘trivial’
12. A new perturbative approach to anharmonic  $V(r) = r^2 + fr^2/(1 + gr^2)$   
21. 10. 1997, PLA
13. Comment on “The strong-coupling expansion for anharmonic oscillators” by FMF and RG  
5. 11. 1997, JPA
14. Perturbative version of the Lanczos method  
12. 11. 1997, Num. Lin. Alg. Appl.
15. Perturbation expansions in a vicinity of an anharmonic coupling: Band matrix approach.  
5. 12. JPA

16. Polynomial oscillators as perturbations of multiple square wells.  
16. 1. 1998, jmp
17. Quasi-exact solvability as an anti-Lanczosean termination  
talk at int. workshop Alg. Approaches to Quantum Dynamics held June 1 - 7,  
1996 at Fields Inst., Toronto, Canada
18. Perturbation theory for quantum mechanics in its Hessenberg-matrix representation  
text and transparencies of the talk at Int. Workshop on Class. and Quantum  
Integrable Systems,  
Dubna, July 8 - 12, 1996.
19. A perturbative version of the Lanczos method  
text of talk presented at Iter. Methods and Comput. Phys. '97 held June 16-20,  
1997 in Milovy, Czech Republic
20. Perturbation theory with asymmetric propagators  
transparencies of talk presented in Brisbane during XII ICMP, July 13 - 19, 1997
21. Triangular representation of Hamiltonians and generalized Gauss hypergeometric series  
III. Int. Workshop on Classical and Quantum Integrable Systems (Jerevan, June  
29 - July 4, 1998), to appear in proceedings, ed. G. S. Pogosyan

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## B. Preprints and reports

1. Pauli corrections by the reference and direct methods.  
Preprint ÚJF, december 1975.
2. Bethe-Goldstone equation and its use in the lightest nuclei.  
CSc (PhD) thesis, Prague, 1977, unpublished.
3. New method of solving linear homogeneous equations.  
Preprint IJaI, P-0073, Moscow, 1978.
4. (M. Z. and M. V. Mihailovich)  
Small model space effective interaction problem.  
Internal report, Inst. J. Stefan, Ljubljana, 1979.
5. (M. Z. and L. Majling)  
The many-body anharmonic oscillators and the matrix continued fractions.  
Preprint E4-82-76, JINR Dubna, 1982.
6. A new algebraic majorization-minorization eigenvalue method.  
Report E4-86-60, JINR Dubna, 1986.
7. A simplified fixed-point perturbation theory and its application to the Coulomb + short-range potential.  
Report E4-86-88, JINR Dubna, 1986.
8. The double anharmonic potential  $ax^2 + bx^4 + cx^6$  and the extended continued fractions.  
Report E5-87-480, JINR Dubna, 1987.
9. The structure of bound states in the polynomial potentials.  
Report E5-87-481, JINR Dubna, 1987.
10. Perturbation theory with the matrix continued fractions.  
Report E5-87-634, JINR Dubna, 1987.
11. A new perturbative treatment of pentadiagonal Hamiltonians.  
Report E4-87-655, JINR Dubna, 1987.
12. Perturbation expansions generated by an approximate propagator.  
Report E4-87-667, JINR Dubna, 1987.
13. A systematic iterative approach to the equations of Low type.  
Report E2-87-675, JINR Dubna, 1987.
14. Chain models with the periodic boundary conditions.  
Report E17-87-681, JINR Dubna, 1987.
15. The analytic continued fractions and bound states in the potential  $\mu^2r^2 + \lambda^2r^{-4}$ .  
Preprint Univ. Kaiserslautern, 1988.
16. Two new types of solvability of the one-dimensional anharmonic oscillators.  
Report E4-89-19, JINR Dubna, 1989.
17. Anharmonic oscillator in the new perturbative picture.  
Report E5-89-726, JINR Dubna, 1989.

18. What is next to harmonic oscillator?  
KL-TH-92/9 preprint (The University of Kaiserslautern, 1992).
19. Non-variational Matrix Methods in Quantum Theory  
(DrSc dissertation, INP Řež, 1993), unpublished, + “autoreferát”.
20. The coupled-channel T-matrix: Its lowest-order Born + Lanczos approximants.  
JINR report E4-95-340, Dubna, 1995.
21. The Hill determinant perturbation theory with triangular propagators  
Report E5-96-260, JINR Dubna, 1996.
22. Perturbative extension of the shooting algorithm  
poster presented at IMCP '97 held June 16-20, 1997 in Milovy, Czech Republic

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## C. The conference proceedings

1. Exact treatment of the Pauli corrections.  
Proceedings of Symp. on Nucl. Struct., Balatonfured, Hungary, 1.-6. sept. 1975, ed. I. Fodor-Lovas and G. Palla, Budapest, 1976.
2. (M. Z. and L. Majling)  
Anharmonic model of the few-body bound states (in Czech).  
Proceedings of the 7th conference of czechosl. physicists, 1981.
3. Analytic solution of the quantum-mechanical problem of anharmonic oscillators (in Czech).  
Proceedings of the 7th conference of czechosl. physicists, 1981.
4. (J. Adam, R.F.Bishop and M.Z.)  
On the Coulomb + separable model of quarkonium.  
Proceedings of the Int. Conf. "Hadron Structure", Smolenice, Czechoslovakia, 14.-18. november 1983, ed. I. Lukáč, in Physics and Applications, vol. 12, IP EPRC SAS, Bratislava, 1985, p. 319-22.
5. Screened Coulomb potential in the simplest non-relativistic models of heavy quarkonia.  
Proceedings of the Int. Conf. "Hadron Structure", Smolenice, Czechoslovakia, 14.-18. november 1983, ed. I. Lukáč, in Physics and Applications, vol. 12, IP EPRC SAS, Bratislava, 1985, p. 527-32.
6. (M. Z., M. F. Flynn and R.F.Bishop)  
The triple problem of convergence in the perturbation expansions with non-diagonal propagators.  
Proceedings of the Int. Conf. "Hadron Stucture", Smolenice, Czechoslovakia, 16.- 20. november 1987, ed. D. Krúpa, in Physics and Applications, vol.14, IP EPRC SAS, Bratislava, 1988, p. 252.
7. (R. F. Bishop, M. F. Flynn and M. Z.)  
Rayleigh - Schrödinger perturbation theory revisited and extended.  
Proceedings of the 12th Int. Workshop, Taxco, Mexico, 14. - 20. august 1988, in Condensed Matter Theories, vol. 4, ed. J. Keller, Plenum P.C., New York, 1989, p. 43-55.
8. Perturbations of the quasi-exactly solvable systems,  
in "Selected topics in QFT and mathematical physics" (proceedings, Liblice, Czechoslovakia, 26. - 30. 6. 1989), ed. J. Niederle and J. Fischer, (World Scientific, Singapore, 1990), pp. 376-80.
9. Anharmonic oscillators and continued fractions (in Czech),  
in "The 10-th conference of Czechoslovak physicists" (proceedings, Brno, Czechoslovakia, 27. - 31. 8. 1990), ed. F. Smutný, (FVS JČSMF, Prague, 1991), pp. 63-4.
10. The generalized method of Hill determinants (a poster abstract),  
in "The 10-th conference of Czechoslovak physicists" (proceedings, Brno, Czechoslovakia, 27. - 31. 8. 1990), ed. F. Smutný,

- (FVS JČSMF, Prague, 1991), p. 242.
11. Hill determinants - a review.  
in "Rigorous results in quantum dynamics" (proceedings, Liblice, Czechoslovakia, 11. -15. 6. 1990), J. Dittrich and P. Exner, eds.,  
(World Scientific, Singapore, 1991), pp. 113 - 22.
  12. Towards reliable approximants in perturbation theory.  
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(FU SAV, Bratislava, 1991), pp. 264-7.
  13. Acceleration of convergence of the HD calculations.  
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  14. Symbolic computations in quantum mechanics: Energies in next-to-solvable systems,  
in "Physics Computing '92" (proceedings, 4th Int. Conf. on Computational Physics, Prague, Czechoslovakia, 24. - 28. 8. 1992), R. A. de Groot and J. Nadrchal, editors,  
(World Sci., Singapore, 1993), pp. 502-6.
  15. Re-construction of Polynomial Potentials with a Perturbation-Interpolation constraint,  
in "Quantum Inversion Theory and Applications", Lecture Notes in Physics 427 (proceedings, Bad Honnef, Germany, 17. - 19. V. 1993), H. V. von Geramb, ed., (Springer, New York, 1994), p. 458 - 64.
  16. Singular Potentials: Algebraization  
in "Operator Theory: Advances and Applications", Vol. 70  
(proceedings of the Int. Conf. on Math. Results in Quantum Mechanics, Blossin near Berlin, Germany, 17. - 21. V. 1993), P. Exner and H. Neidhardt, eds., (Birkhäuser, Berlin, 1994), p. 37 - 43.
  17. A Morse-like partially solvable model of vibrations (a poster), XI-th Int. Congress of Math. Physics (Paris, July 18-23, 1994) and VIII-th Int. Congress of Quantum Chemistry (Prague, June 19-23, 1994). Abstract (Nr. P/I-132) in "Book of Abstracts" (J. Heyrovský Inst., Prague, 1994), addendum, p. 26.
  18. Nonlinearized perturbation theories. (talk at int. conf. "Symmetries in Nonlin. Math. Physics", Kijev, 3. - 8. VII 1995)  
see J. Nonlin. Math. Phys. 3 (1996) 51 - 62.
  19. Two numerical aspects of SuSy in quantum mechanics  
talk, the VII int. conf. on symmetry methods in physics,  
10. - 16. VII 1995, Dubna, did appear
  20. Circular vectors and toroidal matrices.  
talk on the Winter School "Geometry and Physics" Srní, January 15 - 22, 1994,  
see Supplemento ai Rendiconti del Circolo Matematico di Palermo, Serie II - Numero 39 - 1996, pp. 143-148,
  21. Double delta expansions – an open problem  
in Functional Integration Basics and Applications, C. deWitt-Morette, P. Cartier

- and A. Folacci, eds., NATO ASI (held September 1 - 14, 1996, in Carg  se, France)  
Series B: Physics Vol. 361 (Plenum, New York, 1997), p. 424.
22. Perturbation theory with nondiagonal propagators and its use in the  
intermediate-coupling regime  
IX. Int. Conf. Recent Progress in Manybody Theories held July 21 - 25, 1997 in  
Sydney, Australia, proceedings to be ed. by D. Neilson, World Sci.

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## D. Papers in the refereed scientific journals

1. Properties of two-variable expansions of scattering amplitudes.  
Czech. J. Phys. B 23 (1973) 685-95.
2. New methods of solving the Bethe-Goldstone equation.  
Phys. Rev. C 12 (1975) 2077.
3. The recursion method of a linear operator inversion.  
J. Phys. A: Math. Gen. 9 (1976) 1-10.
4. Reply on comment ...  
Phys. Rev. C 14 (1976) 2321.
5. Generalized method of a resolvent operator expansion.  
J. Math. Phys. 18 (1977) 717.
6. Moshinsky brackets for light nuclei  
Phys. Rev. C 15 (1977) 423.
7. The recursion method of a linear operator inversion. II.  
J. Phys. A: Math. Gen. 11 (1978) 1501-8.
8. Recurrence relations for reaction matrices.  
Phys. Rev. C 18 (1978) 1078.
9. Generalized method of a resolvent operator expansion. II.  
J. Math. Phys. 20 (1979) 2330-3.
10. Comment on ‘Truncated space calculation of “exact” bound-state energies’.  
Phys. Rev. C 20 (1979) 384.
11. The perturbed sine-Gordon equation.  
Acta Physica Polonica B 10 (1979) 951-3.
12. Comparison of Brueckner theory with ‘exact’ results for He3 and He4 nuclei.  
Czech. J. Phys. B 30 (1980) 488-98.
13. Generalized method of a resolvent operator expansion. III.  
J. Math. Phys. 21 (1980) 1629-35.
14. Kinetic few-body propagator by exact inversion.  
J. Phys. A 13 (1980) 2375-81.
15. Exact solution of the Schrödinger and Klein-Gordon equations for generalized Hulthén potentials.  
J. Phys. A 14 (1981) 383-94.
16. Harmonic quadrupole oscillator and its anharmonic multipole descendants.  
Phys. Lett. A 81 (1981) 203.
17. Symmetrically anharmonic oscillators.  
Phys. Rev. D 24 (1981) 903.
18. Soliton-shaped potentials and the generalized power-series method.  
Letters in Math. Phys. 5 (1981) 169-75.
19. Analytic solution of the general anharmonic-oscillator problem.

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20. Elementary bound states for the power-law potentials.  
*J. Phys. A* 15 (1982) 2111-22.
  21. On the Green's function for the anharmonic oscillators.  
*Phys. Rev. D* 26 (1982) 3750-1.
  22. The perturbed sine-Gordon equation II: Analytic build up of the one-kink sector for the multiple sine-Gordon equations.  
*Acta Phys. Polonica B* 14 (1983) 3-11.
  23. Extended continued fractions and energies of the anharmonic oscillators.  
*J. Math. Phys.* 24 (1983) 1136-41.
  24. Continued fractions and the potential models of confinement.  
*J. Phys. A* 16 (1983) 213-20.
  25. On exact solutions of the Schrödinger equation.  
*J. Phys. A* 16 (1983) 279-92.
  26. Potential  $r^2 + \lambda r^2/(1 + gr^2)$  and the analytic continued fractions.  
*J. Phys. A* 16 (1983) 293-301.
  27. (M. Z. and L. Majling)  
Few-body anharmonic oscillators and the matrix continued fractions.  
*J. Phys. A* 16 (1983) 639-50.
  28. Analytic Green's function and bound states in the screened Coulomb potential.  
*Phys. Lett. A* 94 (1983) 120.
  29. The recursion method of a linear operator inversion. III.  
*J. Phys. A* 16 (1983) 3313-24.
  30. Schrödinger equation as recurrences. I. Band-matrix Hamiltonians.  
*J. Phys. A* 16 (1983) 4001-12.
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*J. Phys. A* 17 (1984) 1603-10
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*Phys. Lett. A* 102 (1984) 289.
  36. Two continued-fraction treatments of the multichannel scattering.  
*Phys. Rev. A* 30 (1984) 2080.
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 The anharmonic-oscillator problem: a new algebraic solution.  
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41. Minimally relativistic Schrödinger equation and the linearly rising potential.  
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42. (M. Z. and M. Tater)  
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44. Polynomial potentials and a hidden symmetry of the Hill-determinant eigenvalue method.  
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 J. Phys. A 20 (1987) 1751 - 60.
49. (R. N. Chaudhuri, M. Tater and M. Z.)  
 The Hill-determinant approach to the Coulomb + linear confinement.  
 J. Phys. A 20 (1987) 1401.
50. A modified Rayleigh-Schrödinger perturbation theory.  
 Phys. Rev. A 35 (1987) 2448.
51. Perturbation theory with a tridiagonal zeroth-order Hamiltonian.  
 Phys. Lett. A 120 (1987) 317-21
52. Solution of the coupled nonlinear algebraic equations appearing in the fixed point perturbation theory.  
 Czech. J. Phys. B 37 (1987) 1072-8.
53. Perturbation theory with band-matrix propagators.  
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55. On the power-series construction of bound states. I. The energies as zeros of the infinite Hill determinants.

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56. An extrapolative diagonalization of incomplete Hamiltonians.  
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 Perturbation theory without unperturbed solutions.  
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62. Singular anharmonicities and the analytic continued fractions. II. The force  $V(r) = ar^2 + br^{-4} + cr^{-6}$ .  
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66. Polynomial oscillators in Heisenberg picture.  
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71. (M.F.Flynn, R. Guardiola and M.Z.)  
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102. A quick perturbative method for Schrödinger equations  
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103. (M. Z. + Rajkumar Roychoudhury) Spiked and screened oscillators  $V(r) = Ar^2 + B/r^2 + C/r^4 + D/r^6 + F/(1 + gr^2)$  and their elementary bound states.  
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