

Objekttyp: **TableOfContent**

Zeitschrift: **Helvetica Physica Acta**

Band (Jahr): **64 (1991)**

PDF erstellt am: **22.07.2024**

### **Nutzungsbedingungen**

Die ETH-Bibliothek ist Anbieterin der digitalisierten Zeitschriften. Sie besitzt keine Urheberrechte an den Inhalten der Zeitschriften. Die Rechte liegen in der Regel bei den Herausgebern.

Die auf der Plattform e-periodica veröffentlichten Dokumente stehen für nicht-kommerzielle Zwecke in Lehre und Forschung sowie für die private Nutzung frei zur Verfügung. Einzelne Dateien oder Ausdrucke aus diesem Angebot können zusammen mit diesen Nutzungsbedingungen und den korrekten Herkunftsbezeichnungen weitergegeben werden.

Das Veröffentlichen von Bildern in Print- und Online-Publikationen ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. Die systematische Speicherung von Teilen des elektronischen Angebots auf anderen Servern bedarf ebenfalls des schriftlichen Einverständnisses der Rechteinhaber.

### **Haftungsausschluss**

Alle Angaben erfolgen ohne Gewähr für Vollständigkeit oder Richtigkeit. Es wird keine Haftung übernommen für Schäden durch die Verwendung von Informationen aus diesem Online-Angebot oder durch das Fehlen von Informationen. Dies gilt auch für Inhalte Dritter, die über dieses Angebot zugänglich sind.

Ein Dienst der *ETH-Bibliothek*  
ETH Zürich, Rämistrasse 101, 8092 Zürich, Schweiz, [www.library.ethz.ch](http://www.library.ethz.ch)

<http://www.e-periodica.ch>



# HELVETICA PHYSICA ACTA

VOLUMEN 64, 1991

CONTENTS – INHALTSVERZEICHNIS – TABLE DES MATIÈRES

*Fascicle 1*

21. 12. 1990

Aerts, D.: A mechanistic classical laboratory situation violating the Bell inequalities with $2\sqrt{2}$ , exactly "in the same way" as its violations by the EPR experiments . . .	1
Beckers, J., and Debergh, N.: $N=2$ -extended supersymmetries and Clifford algebras . . . . .	24
Campigotto, C., and Smirnov, Yu. F.: On connections between the four-dimensional harmonic oscillator and the Coulomb-problem in the representation with the discrete basis . . . . .	48
Greub, C.: QCD corrections to the $W$ decay width within a new dimensional regularization scheme . . . . .	61
Groot, C. de, and Würtz, D.: Statistical mechanics of low autocorrelation skew-symmetric binary sequences . . . . .	86
Ullah, N.: Distribution of eigenvalues of $3 \times 3$ band matrices . . . . .	92

*Fascicle 2*

20. 3. 1991

Ivanov, Al.: Orthomodularity, compatibility and commutativity in physical theories .	97
Lor, J.-C., and Rozoy, L.: Les courbures de Ricci d'une variété riemannienne ou pseudoriemannienne ne déterminent pas toujours sa métrique . . . . .	104
Viña, A.: Behaviour of wave functions of the universe and cosmological constant .	126
Detcheva, V., Metodieva, M., Kalitzin, S., and Kandilarov, B.D.: Transfer-matrix approach to the anisotropy of effective masses in [100] and [111] directions of diatomic crystals . . . . .	151
Perrier, J.: Results from the L3 experiment . . . . .	159
Barbiellini, B., Moroni, E.G., and Jarlborg, T.: Gradient corrections in 3d magnetic materials . . . . .	164
Imer, J.M., Malterre, D., Grioni, M., Weibel, P., Dardel, B., and Baer, Y.: High resolution photoemission in the $URh_3B_x$ system . . . . .	166
Kerkoc, P., and Günter, P.: Electro-optic properties of 4-(N,N-dimethylamino)-3-acetamidonitro-benzene (DAN) bulk crystals and frequency doubling in single crystals cored fibers . . . . .	168
Scheuzger, P., Neuenschwander, J., and Wyder, P.: High-field magnetoconductivity of electrons on liquid helium . . . . .	170
Maeder, D.G.: Tentative cellular automaton model for a solid-liquid-gas system on a hexagonal lattice . . . . .	172
Cossy-Favre, A., Holguin, E., Dutoit, B., and Rinderer, L.: Evaluation expérimentale du courant de destruction de l'état mixte à deux dimensions dans les couches minces d'indium . . . . .	173
Fukami, T., Yamamoto, T., Yamasaki, Y., Miyoshi, K., Horie, Y., and Rinderer, L.: Anomalous field dependence of critical current in $Bi_2Sr_2CaCu_2O_{8+y}$ films made by the laser ablation . . . . .	175

Fukami, T., Nishizaki, T., Yamamoto, T., Aomine, T., and Rinderer, L.: A hysteresis of magnetic field dependence of critical current in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$ films prepared by laser ablation . . . . .	177
Nicoud, S., Nakano, H., Abukay, D., Suzuki, M., Dutoit, B., and Rinderer, L.: 110K Bi-sytstem films prepared by RF-magnetron sputtering with compound target . . . . .	179
Holguin, E., and Berger, H.: Dynamics of flux penetration in superconducting $(\text{YBaCuO})_{1-x}\text{Ag}_x$ tubular samples . . . . .	181
Vaterlaus, A., Milani, F., and Meier, F.: Spin-polarization of the electrons thermoeMITTED from Fe and Ni . . . . .	183
Hürlimann, E., Peschak, V., and Bilgram, J.H.: Sidebranching of xenon dendrites . . . . .	185
Grimmer, H.: General relations between the restrictions imposed by different point groups on the form of property tensors . . . . .	187
Mäder, K.A., Känel, H. von, and Baldereschi, A.: Interface-confined ordered compound formation: application to Si/Ge strained heterojunctions . . . . .	189
Egli, W., and Eliasson, B.: Formation of electrical breakdown in a silent discharge. One-dimensional calculations . . . . .	192
Hall, B.D., and Monot, R.: A CCD based electron counting system for high energy electrons . . . . .	193
Mendik, M., Ospelt, M., Känel, H. von, and Wachter, P.: Determination of elastic properties of Si/Ge superlattices from surface acoustic modes by Brillouin scattering . . . . .	195
Onda, N., Henz, J., Müller, E., Känel, H. von, Schwarz, C., and Pixley, R.E.: Structural and electrical investigation of an epitaxial metallic $\text{FeSi}_2$ -phase on Si (111) . . . . .	197
Frochaux, E.: A new approach of the bound state problem in Quantum Field Theory . . . . .	199
Gaillard, G., Bach, P., Ball, J., Binz, R., Bystricky, J., Demierre, P., Fontaine, J.M., Goudour, J. P., Hess, R., Klett, A., Kunne, R., Lac, C.D., Lehar, F., Lesquen, A. de, Lopiano, D., Mali, M. de, Perrot, F., Peschina, R., Rapin, D., Rössle, E., Rossum, L. van, Schmitt, H., Sormani, P., and Spinka, H.: The Nucleon - Nucleon program at Saturne II . . . . .	201
Mulhauser, F., Jacot-Guillarmod, R., Piller, C., Schaller, L.A., Schellenberg, L., and Schneuwly, H.: Comparison of muon transfer from muonic protium and deuterium to sulphur dioxide . . . . .	203
Jacot-Guillarmod, R., Mulhauser, F., Piller, C., Schaller, L.A., Schellenberg, L., and Schneuwly, H.: New measurements of muon transfer from muonic protium and deuterium to neon . . . . .	205
Badii, R., Finardi, M., and Broggi, G.: Complexity and unpredictability of non-self-similar scaling dynamics . . . . .	207
Badii, R., and Finardi, M.: Global model construction from experimental data . . . . .	209
Editors' note . . . . .	211

*Fascicle 3*

24. 4. 1991

Feldman, J., and Trubowitz, E.: The flow of an electron-phonon system to the superconducting state . . . . .	213
--	-----

*Fascicle 4*

7. 6. 1991

Alvarez-Gaumé, L.: Random surfaces, statistical mechanics and string theory . . . . .	359
---	-----

## Fascicle 5

5. 7. 1991

Aerts, D., and Reignier, J.: On the problem of non-locality in quantum mechanics . . . . .	527
Löffelholz, J.: Non-existence of path space measure for local (QED) <sub>1</sub> . . . . .	548
Parisse, B.: Résonances pour l'opérateur de Dirac . . . . .	557
Exner, P.: A solvable model of two-channel scattering . . . . .	592
Duffield, N.G.: Local correlation functions for mean-field dynamical semigroups on C*-algebras . . . . .	610
Raggio, G.A., and Werner, R.F.: The Gibbs variational principle for inhomogeneous mean-field systems . . . . .	633
Gruber, Ch.: Spinless Fermi gas on one-dimensional lattice: rigorous results . . . . .	668
Feldman, J., Knörrer, H., and Trubowitz, E.: A remark on anisotropic superconducting states . . . . .	694
Troyer, M.: Monte Carlo simulation of the one-dimensional $t$ - $J$ - $J'$ model . . . . .	700
Cantale, G., Gaillard, G., Heer, E., Hess, R., Lechanoine-Leluc, C., and Rapin, D.: A new analysis of PSI $\bar{p}p \rightarrow \bar{d}\pi^+$ data . . . . .	736

## Fascicle 6

28. 8. 1991

Altarelli, G.: Precision tests of the electroweak theory and bounds on new physics . . . . .	761
Derendinger, J.-P.: Some vacua of the heterotic string . . . . .	797
Ferrara, S.: Geometry and quantum symmetries of Calabi-Yau moduli space . . . . .	811
Jacob, M.: QCD and jets . . . . .	820
Leutwyler, H.: On the effective action of the WZNW-model . . . . .	842
Maiani, L.: Lattice calculations of $f_D$ AND $f_B$ . . . . .	853
Rittenberg, V., and Schütz, G.: Patterns of U, [SU(2)] symmetry breaking in Heisenberg . . . . .	871
Veneziano, G.: Inflation-driven string instabilities....and the other way around . . . . .	877
Horie, Y., Miyazaki, T., Fukami, T., Aomine, T., and Rinderer, L.: Attenuation and velocity change of ultrasonic waves due to thermally assisted flux flow in $(\text{La}_{1-x}\text{Sr}_x)_2\text{CuO}_4$ ceramics . . . . .	890
Fukami, T., Yamamoto, T., Horie, Y., Aomine, T., and Rinderer, L.: Behaviors of temperature and field dependences of critical current due to flux motion in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+y}$ film prepared by laser ablation . . . . .	892
Fukami, T., Holguin, E., Nakano, H., and Rinderer, L.: Thermal process effect to $(\text{Bi}_{1-x}\text{Pb}_x)_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ films prepared by RF sputtering with compound powder target (II) . . . . .	894
Fukami, T., Soares, V., and Rinderer, L.: Temperature dependence of activation energy in flux creep in high $T_c$ oxide superconductors . . . . .	896
Mendik, M., Känel v., H., and Wachter, P.: Elastic properties of PuTe single crystals and NiSi <sub>2</sub> films determined by Brillouin scattering . . . . .	898
Schmidt, M.: Adsorption of homocysteine on titanium surfaces . . . . .	900
Croci, M., Calpini, B., and Monot, R.: Cross section of adsorbed NO on Pt (111) to thermal He scattering . . . . .	902
Romero, J., Fleischer, T., and Huguenin, R.: Dc size effects in Cd wires and surface structure by SEM . . . . .	904
Beeli, C., and Nissen, H.-U.: Structure of the stable decagonal Al-Mn-Pd quasicrystal . . . . .	906

Maric, Dj.M., and Meier, P.F.: Electronic structure of hydrogen passivated/activated centers in semiconductors . . . . .	908
Soares, V., Houch, D., Meyer, E., and Rinderer, L.: Simulation of cooling rates in supercooled metal droplets . . . . .	910
Weiss, D.A., and Egolf, P.W.: An analogy between surface waves on helium II and antiferromagnetism . . . . .	912
Brambilla, M., Lugiato, L.A., Penna, V., and Prati, F.: General principles for the formation of spatial patterns in lasers and laser hydrodynamics . . . . .	914
Brambilla, M., Prati, F., Lugiato, L.A., and Battipede, F.: Multistability and phase singularities in transverse laser patterns . . . . .	916
Broggi, G., Brambilla, M., Casagrande, F., and Lugiato, L.A.: Bistability in the laser cooling of atomic beams . . . . .	918
Flepp, L., Holzner, R., Brun, E., and Waldner, F.: Extended Bloch-type NMR-laser model . . . . .	920
Finardi, M., Flepp, L., Holzner, R., Badii, R., Broggi, G., and Brun, E.: Hierarchical modelling of NMR-laser attractors . . . . .	922
Egolf, P.W., Weiss, D.A., and Olsen, J.L.: Wave breaking and -turbulence on the surface of superfluid helium . . . . .	924
Wüest, M.: Simulation of ion backscattering from rough surfaces . . . . .	926
Schafroth, S., Vogel, S., and Meier, P.F.: Calculation of the molecular final states of tritium-containing alkanes . . . . .	928
Wildi, M.: LADS, ein universeller $4\pi$ Detektor für die Untersuchung der $\pi^{+/-}$ Streuung und Absorption . . . . .	930
Mulhauser, F., Jacot-Guillarmod, R., Piller, C., Schaller, L.A., Schellenberg, L., and Schneuwly, H.: Muon Transfer in $H_2 + SO_2$ gas mixtures . . . . .	932
Schneuwly, H., Jacot-Guillarmod, R., Mallinger, M., Mulhauser, F., Piller, C., Schaller, L.A., and Schellenberg, L.: New charge transfer rates from muonic protium to neon . . . . .	934
Kopecky, S., Riehs, P., and Vana, M.: Teilchenemission von $^{232}Th(\alpha, f)$ bei $E_\alpha=120$ MeV . . . . .	936
Vana, M., and Riehs, P.: Massenverteilung bei $^{232}Th(\alpha, f)$ , $E_\alpha=120$ MeV . . . . .	938
Andreani, L.C., and Beck, H.: A variational study of the two-impurity Anderson model . . . . .	940
Troyer, M., Assaad, F.F., and Würtz, D.: Disconnected cluster approach for quantum Monte Carlo simulations . . . . .	942
Egolf, P.W.: A new model on turbulent shear flows . . . . .	944
Reimann, P., and Talkner, P.: Probability densities for the noisy Feigenbaum scenario . . . . .	946
Groot de, C., and Würtz, D.: Signal processing and noise reduction with Connectionist Networks . . . . .	948
Stoop, R., Parisi, J., and Brauchli, H.: Convergence properties for the evaluation of invariants from finite symbolic substrings . . . . .	950

*Fascicle 7*  
20. 9. 1991

Pfister, C.E.: Large deviations and phase separation in the two-dimensional Ising model . . . . .	953
Chayes, L.: On the critical behavior of the first passage time in $d \geq 3$ . . . . .	1055
Botvich, D.D., Malyshev, V.A., and Manita, A.D.: Translation invariant quantum master equation . . . . .	1072
Broidioi, M., and Verbeure, A.: Plasmon frequency for a spin-density wave model . . . . .	1093
Shivamoggi, B.K.: Generalized spectral laws for the energy and enstrophy cascades in a two-dimensional turbulence . . . . .	1113
Yilmazer, A.U., and Aydin, Z.Z.: Lorentz invariance from Euclidean supersymmetry . . . . .	1163
Graf, G.M.: A remark on long-range Stark scattering . . . . .	1167

*Fascicle 8*  
2. 12. 1991

Straumann, N.: Zur Elektrodynamik von Schwarzen Löchern . . . . .	1175
Dorlas, T.C., Lewis, J.T., and Pulé, J.V.: Condensation in some perturbed meanfield models of a bose gas . . . . .	1200
Gielera, R., and Zagrebnov, V.A.: Analyticity and independence on the classical boundary conditions of the infinite volume thermal KMS states for a class of continuous systems. I. The Maxwell-Boltzmann statistics case . . . . .	1225
Hollmann, H., and Gleissner, W.: Quasi-crystals from a numerical point of view . .	1247
Emery, S., and Piguet, O.: Chern-Simons theory in the axial gauge: manifold with boundary . . . . .	1256
Barker, F.C., Rasche, G., and Woolcock, W.S.: The dependence of the QED short-distance enhancement factor on the top quark mass . . . . .	1271
Greub, C., Bettems, J.M., and Minkowski, P.: Inclusive lepton pair production through virtual W,Z and $\gamma$ gauge bosons in proton-antiproton collisions . . . . .	1277