

# Michael Basler - Scientific Publications

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## 1. Original Papers

**M. Basler**, *Self-Consistent Spherically Symmetric Solutions of the Yang-Mills-Dirac-Equations*; Z. Phys. C 20 (1983), 57-65.

**M. Basler, A. Hädicke**, *On non-abelian SU(2) plane waves*; Phys. Lett B 144 (1984), 83-86.

**M. Basler**, *Yang-Mills fields invariant under subgroups of the Poincaré group*; J. Phys. A 18 (1985), 3087-3100.

**M. Basler, A. Hädicke**, *Non-Abelian SU(2) gauge fields produced by an infinite colored plane*; Wiss. Zeitschr. der FSU Jena, Nat. Wiss. R. 35 (1986), 697-699.

**M. Basler**, *Canonical quantization and cosmological particle production in non-abelian gauge theories*; Phys. Lett B 212 (1988), 418-422.

**M. Basler, B. Kämpfer**, *On the Dynamics of Cosmological Particle Production*; Gen. Rel. Grav. 21 (1989), 881-898.

**M. Basler, B. Kämpfer**, *Particle Production during Inflationary Reheating*; Int. J. Mod. Phys. 7 (1992), 2033-2044.

**M. Basler**, *Functional Methods for Arbitrary Densities in Curved Spacetime*; Fortschr. Phys. 41 (1993), 1-43.

**M. Basler, W. Krech, and K.Yu. Platov**, *Phase-locking in strongly coupled SQUID cells*; Phys. Lett. A 190 (1994), 488-494.

**M. Basler, W. Krech, and K.Yu. Platov**, *Theory of phase-locking in small Josephson junction cells*; Phys. Rev. B 52 (1995), 7504-7515.

**M. Basler, W. Krech, and K.Yu. Platov**, *Anti-phase locking in a two-dimensional Josephson junction array*; J. Appl. Phys. 80 (1996), 3598-3600.

**M. Basler, W. Krech, and K.Yu. Platov**, *Theory of phase-locking in generalized hybrid Josephson junction arrays*; Phys. Rev. B 55 (1997), 1114-1122.

**M. Basler, W. Krech, and K.Yu. Platov**, *Capacitance-induced in-phase switching in a basic two-dimensional Josephson junction array*; Z. Phys. B104 (1997), 199-205.

**M. Basler, W. Krech, and K.Yu. Platov**, *How to achieve in-phase locking in small-inductance Josephson junction ladder arrays*; Appl. Phys. Lett. 72 (1998),

252-254.

## 2. Conference Proceedings

**M. Basler**, *Space-Time Symmetric Yang-Mills Fields*; Contribution to the XXIIth International Conference on High Energy Physics, Leipzig, 1984 July, 19-25.

**M. Basler**, *Quantum Theory of Gauge Fields in Robertson-Walker Space-Time*; Proc. XXth Int. Symp. Ahrenshoop on Theory of Elementary Particles, Ahrenshoop, 1986, Oct. 13-17, Ed. by F. Kaschluhn, Inst. f. Hochenergiephysik Berlin-Zeuthen PHE 86-13 pp. 256-270.

**M. Basler, B. Kämpfer**, *Some Results in Cosmological Particle Production*; Proc. XXIIInd Int. Symp. Ahrenshoop on Theory of Elementary Particles, Ahrenshoop, 1988, Oct. 17-21, Ed. by E. Wieczorek, Inst. f. Hochenergiephysik Berlin-Zeuthen, PHE 88-13 pp. 256-264.

**M. Basler, B. Kämpfer**, *Particle Production during Inflationary Reheating*; Proc. XXIIIrd Int. Symp. Ahrenshoop on Theory of Elementary Particles, Ahrenshoop, 1989, Oct. 9-13, Ed. by H. J. Kaiser, Inst. f. Hochenergiephysik Berlin-Zeuthen, PHE 89-13 pp. 205-214.

**M. Basler, H. Fröbe**, *Functional integral quantization of Yang-Mills theory in external Friedman-Robertson-Walker cosmos*; Proc. XXVth Int. Symp. Ahrenshoop on Theory of Elementary Particles, Gosen, 1991, Sept. 23-26, Ed. by H. J. Kaiser, DESY, Inst. für Hochenergiephysik Berlin-Zeuthen, pp. 331-339.

**M. Basler, W. Krech, and K.Yu. Platov**, *Phase-locking in small Josephson junction cells*; In: C. Giovannella and M. Tinkham, Eds., *Macroscopic Quantum Phenomena and Coherence in Superconducting Networks*, pp. 225-234, World Scientific; Singapore, New Jersey, London, Hong Kong, 1995.

**M. Basler, W. Krech und K.Yu. Platov**, *Synchronisationseffekte in stark induktiv gekoppelten SQUID-Zellen*; Verhandlgn. DPG (VI/1995), 1730.

**M. Basler, W. Krech und K.Yu. Platov**, *Theoretische Untersuchungen zur Synchronisation in einfachen 2D Josephson-Netzwerken*; Verhandlgn. DPG (VI/1996), 2041.

**M. Basler, W. Krech und K.Yu. Platov**, *Symmetriebrechung und Phase-Locking in zweidimensionalen Josephsonkontakt-Anordnungen*; Verhandlgn. DPG (5/1997), 1014.

**M. Basler, W. Krech und K.Yu. Platov**, *Analytische Resultate zum Phase-Locking in integrierten 2D Josephsonkontakt-Anordnungen*; Verhandlgn. DPG (5/1997), 1014-1015.

**M. Basler, W. Krech, and K.Yu. Platov**, *Theory of Phase Locking in Simple Two-Dimensional Josephson Junction Arrays with Small Inductances*; In: Proc.

International Conference on Applied Superconductivity, Pittsburgh, 1996, IEEE Trans. Appl. Supercond. 7 (1997), 3130-3133

**M. Basler, W. Krech, and K.Yu. Platov**, *Intrinsic Mechanism of Phase Locking in Two-dimensional Josephson Junction Arrays*; In: Ext. Abstracts ISEC'97, 6th International Superconductive Electronics Conference, Berlin, 1997, 2 (1997), 177-179.

**M. Basler, W. Krech, and K.Yu. Platov**, *Phase Locking in Josephson Junction Ladder Arrays: Analytical results*; In: Ext. Abstracts ISEC'97, 6th International Superconductive Electronics Conference, Berlin, 1997, 2 (1997), 201-203.

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