

## List of publications of Konrad Kleinknecht

### A. Books

1. Detektoren für Teilchenstrahlung, K. Kleinknecht, Teubner Studienbücher, 296 Seiten mit 154 Abbildungen und 20 Tabellen, Teubner Verlag, Stuttgart 1984, 3. Auflage 1992, 4. Auflage 2005
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3. Kohlrausch, Praktische Physik, 23. Auflage, Kapitel 9.7: Nachweis hochenergetischer Teilchenstrahlung, Teubner Verlag, Stuttgart 1984
4. Proceedings of the 11<sup>th</sup> International Conference on Neutrino Physics and Astrophysics, Nordkirchen, June 11-16, 1984, ed. by K. Kleinknecht and E.A. Paschos, World Scientific Publ. Co. Singapore 1984
5. Particles and Detectors, Festschrift für Jack Steinberger, Springer Tracts in Modern Physics Vol. 108, editors: K. Kleinknecht and T.D. Lee, Heidelberg 1986
6. Ryuushisen Kenshutsu-Ki, K. Kleinknecht, 222 Seiten mit 150 Abbildungen und 20 Tabellen, Japanische Übersetzung des Buches "Detektoren für Teilchenstrahlung", übers. von K. Takahashi und H. Yoshiki, Baifukan Verlag, Tokyo, 1987
7. CP Violation, ed. by C. Jarlskog, World Scientific Publ. Co., Singapore 1988, chapter "CP Violation in the  $K^0 - \overline{K}^0$  System", p.41 – 104.
8. Proton-Antiproton Interactions and Fundamental Symmetries, Proc. of the IX<sup>th</sup> European Symp. on Proton-Antiproton Interactions and Fundamental Symmetries, Mainz, 5-10 Sept. 1988, ed. by K. Kleinknecht und E. Klempt, Nucl.Phys.B (Proc.Suppl.) 8(2989) June 1989
9. Detektor korpuskularnich islutchennii, Russische Übersetzung des Buches "Detektoren für Teilchenstrahlung", Mir Verlag, Moskau, 1990
10. „Uncovering CP Violation“, Experimental Clarification in the Neutral K Meson and B Meson Systems, Springer Tracts in Modern Physics, 2004
11. „Wer im Treibhaus sitzt“ (2007), Piper Verlag München
12. „Risiko Energiewende - Wege aus der Sackgasse“ (2015), Springer Spektrum Verlag Heidelberg
13. „Einstein und Heisenberg - Begründer der modernen Physik“ (2017), Kohlhammer Verlag Stuttgart

## B. Publications

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2.  $K_S$  and  $K_L$  interference in the  $\pi^+ \pi^-$  decay mode, CP invariance and the  $K_S$ - $K_L$  mass difference, C. Alff-Steinberger, W. Heuer, K. Kleinknecht, C. Rubbia, A. Scribano, J. Steinberger, M.J. Tannenbaum and K. Tittel, Phys.Lett. 20, 207(1966)
3. Further results from the interference of  $K_S$  and  $K_L$  in the  $\pi^+ \pi^-$  decay mode. C. Alff-Steinberger, W. Heuer, K. Kleinknecht, C. Rubbia, A. Scribano, J. Steinberger, M.J. Tannenbaum and K. Tittel, Phys.Lett. 21, 595(1966)
4. The  $\Delta S$ - $\Delta Q$  rule in the decay  $K^0 \rightarrow e^\pm + \nu + \pi^\pm$ , S. Bennett, D. Nygren, H. Saal, J. Sunderland, J. Steinberger and K. Kleinknecht, Phys.Lett. 27B, 244(1968)
5. Observation of time-dependent  $K_S$  and  $K_L$  interference in the  $\pi^+ \pi^-$  decay channel from an initial  $K_0$  state, A. Böhm, P. Darriulat, C. Grosso, V. Kaftanov, K. Kleinknecht, H.L. Lynch, C. Rubbia, H. Ticho and K. Tittel, Phys.Lett. 27B, 321(1968)
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7. The phase difference between  $K_L \rightarrow \pi^+ \pi^-$  and  $K_S \rightarrow \pi^+ \pi^-$  decay amplitudes, A. Böhm, P. Darriulat, C. Grosso, V. Kaftanov, K. Kleinknecht, H.L. Lynch, C. Rubbia, H. Ticho and K. Tittel, Nucl. Phys. B9, 605(1969)
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9. Interference between  $K_L \rightarrow \pi^+ \pi^-$  and  $K_S \rightarrow \pi^+ \pi^-$  behind a copper regenerator, H. Faissner, H. Foeth, A. Staude, K. Tittel, P. Darriulat, K. Kleinknecht, C. Rubbia, J. Sandweiss, M.I. Ferrero and C. Grosso, Phys.Lett. 30B, 204(1969)
10. On the phase of  $\eta_{+-} = A(K_L \rightarrow \pi^+ \pi^-)/A(K_S \rightarrow \pi^+ \pi^-)$ , P. Darriulat, K. Kleinknecht, C. Rubbia, J. Sandweiss, H. Foeth, A. Staude, K. Tittel, M.I. Ferrero and C. Grosso, Phys.Lett. 30B, 209(1969)
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13. Pomeranchuk theorem and  $K_L$ - $K_S$  regeneration, K. Kleinknecht, Phys.Lett. 30B, 514(1969)

14. Angular dependence of  $K_L$ - $K_S$  regenerative scattering for copper and lead nuclei at high energies, H. Foeth, M. Holder, E. Radermacher, A. Staude, P. Darriulat, J. Deutsch, K. Kleinknecht, C. Rubbia, K. Tittel, M.I. Ferrero and C. Grosso, Phys.Lett. 31B, 544(1969)
15. A precision determination of the  $K_L$ - $K_S$  mass difference, M. Cullen, P. Darriulat, J. Deutsch, H. Foeth, C. Grosso, M. Holder, K. Kleinknecht, E. Radermacher, C. Rubbia, D. Shambroom, M. Scirè, A. Staude and K. Tittel, Phys.Lett. 32B, 523(1970)
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22. A short-lived neutral beam, K. Kleinknecht and H. Wahl, CERN/EFCA/72/4 Vol. I, p. 276(1972)
23.  $K_L$ - $K_S$  regeneration, K. Kleinknecht, Fortschritte der Physik (Berlin) 21, 57(1973)
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26. Measurement of the Charge Asymmetry in the Decays  $K_L^0 \rightarrow \pi^\pm e^\pm \nu$  and  $K_L^0 \rightarrow \pi^\pm \mu^\pm \nu$ , C. Geweniger, S. Gjesdal, T. Kamae, G. Presser, P. Steffen, J. Steinberger, F. Vannucci, H. Wahl, F. Eisele, H. Filthuth, K. Kleinknecht, V. Lüth and G. Zech, Physics Letters 48B, 483(1974)
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