

## 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
2. Detectors for Particle Radiation, Cambridge University Press, Cambridge 1986; second edition 1998
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  $K^0 - \bar{K}^0$  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
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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
14. Einstein and Heisenberg, The Controversy over Quantum Physics, Springer Nature Switzerland, 2019

15. Quanten, herausgegeben von Konrad Kleinknecht, Schriftenreihe der Heisenberg-Gesellschaft, Hirzel Verlag Stuttgart, 2013
16. Quanten 2, hg. von Konrad Kleinknecht, Schriftenreihe der Heisenberg-Gesellschaft, Hirzel Verlag Stuttgart, 2014
17. Quanten 3, hg. von Konrad Kleinknecht, Schriftenreihe der Heisenberg-Gesellschaft, Hirzel Verlag Stuttgart, 2015
18. Quanten 4, hg. von Konrad Kleinknecht, Schriftenreihe der Heisenberg-Gesellschaft, Hirzel Verlag Stuttgart, 2016
19. Quanten 5, hg. von Konrad Kleinknecht, Schriftenreihe der Heisenberg-Gesellschaft, Hirzel Verlag Stuttgart, 2017
20. Quanten 6, hg. von Konrad Kleinknecht, Schriftenreihe der Heisenberg-Gesellschaft, Hirzel Verlag Stuttgart, 2018

## B. Publications

1. A measurement of the  $\pi^+ \rightarrow \pi^0 e^+ \nu$  decay rate, P. Depommier, J. Duclos, J. Heintze, K. Kleinknecht, H. Rieseberg and V. Soergel, Nucl.Phys. B4, 189(1968)
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)
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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)
6. On  $K_S$ - $K_L$  regeneration in copper, A. Böhm, P. Darriulat, C. Grosso, V. Kaftanov, K. Kleinknecht, H.L. Lynch, C. Rubbia, H. Ticho and K. Tittel, Phys.Lett. 27B, 594(1968)
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)
11. Search for coherent regeneration from electrons; the  $K_0$  charge radius, H. Foeth, M. Holder, E. Radermacher, A. Staude, P. Darriulat, J. Deutsch, K. Kleinknecht, C. Rubbia, K. Tittel, M.I. Ferrero, A. Germak and C. Grosso, Phys.Lett. 30B, 276(1969)
12. Search for  $K_L \rightarrow \mu^+ \mu^-$  and  $K_S \rightarrow e^+ e^-$  decays, 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. 30B, 282(1969)
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17.  $K_L$ - $K_S$  regeneration, K. Kleinknecht, Proceedings of the Daresbury Study Weekend on K mesons (1971) (Science Research Council Publication)
18. Messungen der Phasendifferenz  $\phi_{+-}$  zwischen den Amplituden der Zerfälle  $K_L \rightarrow \pi^+\pi^-$  and  $K_S \rightarrow \pi^+\pi^-$ , K. Kleinknecht, Fortschritte der Physik (Berlin) 19, 661(1971)
19. A measurement of the  $K_L \rightarrow \pi e \nu$  form factor, V. Bisi, P. Darriulat, M.I. Ferrero, C. Grosso-Pilcher, K. Kleinknecht, C. Rubbia, A. Staude and K. Tittel, Phys.Lett. 36B, 533(1971)
20. A measurement of the total cross-sections for  $\Lambda$  hyperon interactions on protons and neutrons in the momentum range from 6 GeV/c to 21 GeV/c, S. Gjesdal, G. Presser, P. Steffen, J. Steinberger, F. Vannucci, H. Wahl, K. Kleinknecht, V. Lüth and G. Zech, Phys. Letters 40B, 152(1972)
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23.  $K_L$ - $K_S$  regeneration, K. Kleinknecht, Fortschritte der Physik (Berlin) 21, 57(1973)
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25. Hyperon Nucleon Total Cross-Sections, K. Kleinknecht, Proceedings I. Intern. Winter Meeting on Fundamental Physics, Sallent de Gállego, Spain (1973), p. 177
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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