

# Scientific Publications

Professor Dr. Burkhard Jochem Fleischer

17 December 1937 – 1 April 2013

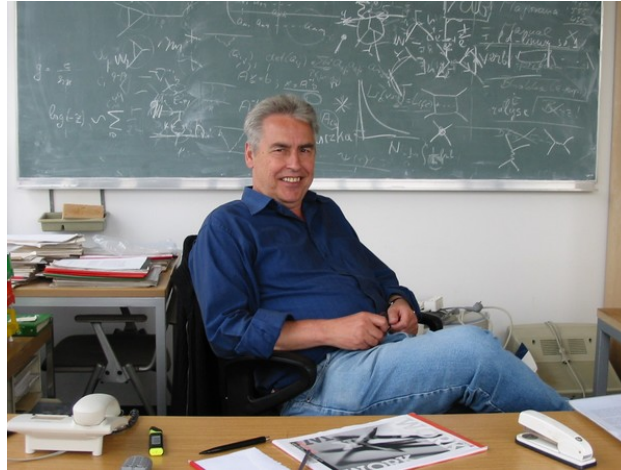


Foto with kind permission by Prof. Jürgen Engels. By E-mail to T.R. on 29 March 2016. Original publication: [http://www2.physik.uni-bielefeld.de/fileadmin/user\\_upload/theory\\_e6/Images/Persons/fleischer.jpg](http://www2.physik.uni-bielefeld.de/fileadmin/user_upload/theory_e6/Images/Persons/fleischer.jpg)

## Citations summary

Generated on 2019-12-17

119 papers found, 96 of them citeable (published or arXiv)

Citation summary results	Citeable papers	Published only
<b>Total number of papers analyzed:</b>	<u>96</u>	<u>69</u>
<b>Total number of citations:</b>	4,084	3,732
<b>Average citations per paper:</b>	42.5	54.1
<b>Breakdown of papers by citations:</b>		
Renowned papers (500+)	<u>0</u>	<u>0</u>
Famous papers (250-499)	<u>2</u>	<u>2</u>
Very well-known papers (100-249)	<u>12</u>	<u>11</u>
Well-known papers (50-99)	<u>12</u>	<u>12</u>
Known papers (10-49)	<u>37</u>	<u>28</u>
Less known papers (1-9)	<u>30</u>	<u>13</u>
Unknown papers (0)	<u>3</u>	<u>3</u>
$h_{\text{HEP}}$ index [2]	32	31

Output from <https://inspirehep.net>, generated by the request "f a j.fleischer.1", with the Citesummary format chosen.

**A collection of recent talks (2007 – 2012) by Jochem Fleischer may be found at:**

[http://hugo-riemann.de/tord/doc/Jochem\\_Fleischer/](http://hugo-riemann.de/tord/doc/Jochem_Fleischer/)

## Scientific Publications by Jochem Fleischer

1. **“Efficient contraction of 1-loop N-point tensor integrals”**  
J. Fleischer, J. Gluza, M. Gluza, T. Riemann and R. Sevillano.  
arXiv:1211.3921 [hep-ph]  
PoS LL **2012**, 051 (2012)
2. **“New developments in PJFry”**  
J. Fleischer, T. Riemann and V. Yundin.  
arXiv:1210.4095 [hep-ph]  
PoS LL **2012**, 020 (2012), [PoS LL **2012**, 020 (2012)]
3. **“The SM and NLO Multileg and SM MC Working Groups: Summary Report”**  
J. Alcaraz Maestre *et al.* [SM AND NLO MULTILEG and SM MC Working Groups Collaboration].  
arXiv:1203.6803 [hep-ph] – 118 citations
4. **“PJFry: A C++ package for tensor reduction of one-loop Feynman integrals”**  
J. Fleischer, T. Riemann and V. Yundin.  
DESY-11-252, BI-TP-2011-51
5. **“New Results for Algebraic Tensor Reduction of Feynman Integrals”**  
J. Fleischer, T. Riemann and V. Yundin.  
arXiv:1202.0730 [hep-ph]  
PoS RADCOR **2011**, 011 (2011)
6. **“One-Loop Tensor Feynman Integral Reduction with Signed Minors”**  
J. Fleischer, T. Riemann and V. Yundin.  
arXiv:1112.0500 [hep-ph]  
10.1088/1742-6596/368/1/012057  
J. Phys. Conf. Ser. **368**, 012057 (2012)
7. **“A solution for tensor reduction of one-loop N-point functions with  $N \geq 6$ ”**  
J. Fleischer and T. Riemann.  
arXiv:1111.5821 [hep-ph]  
10.1016/j.physletb.2011.12.060  
Phys. Lett. B **707**, 375 (2012)
8. **“Simplifying 5-point tensor reduction”**  
J. Fleischer and T. Riemann.  
arXiv:1111.4153 [hep-ph]  
10.5506/APhysPolB.42.2371  
Acta Phys. Polon. B **42**, 2371 (2011)
9. **“Calculating contracted tensor Feynman integrals”**  
J. Fleischer and T. Riemann.  
arXiv:1104.4067 [hep-ph]  
10.1016/j.physletb.2011.06.033  
Phys. Lett. B **701**, 646 (2011)
10. **“A Complete algebraic reduction of one-loop tensor Feynman integrals”**  
J. Fleischer and T. Riemann.  
arXiv:1009.4436 [hep-ph]  
10.1103/PhysRevD.83.073004  
Phys. Rev. D **83**, 073004 (2011)

11. **“Some variations of the reduction of one-loop Feynman tensor integrals”**  
 J. Fleischer and T. Riemann.  
 arXiv:1006.0679 [hep-ph]  
 PoS ACAT **2010**, 074 (2010)
12. **“A Recursive Approach to the Reduction of Tensor Feynman Integrals”**  
 T. Diakonidis, J. Fleischer, T. Riemann and B. Tausk.  
 arXiv:1002.0529 [hep-ph]  
 PoS RADCOR **2009**, 033 (2010)
13. **“A Recursive reduction of tensor Feynman integrals”**  
 T. Diakonidis, J. Fleischer, T. Riemann and J. B. Tausk.  
 arXiv:0907.2115 [hep-ph]  
 10.1016/j.physletb.2009.11.049  
 Phys. Lett. B **683**, 69 (2010)
14. **“A Complete reduction of one-loop tensor 5 and 6-point integrals”**  
 T. Diakonidis, J. Fleischer, J. Gluza, K. Kajda, T. Riemann and J. B. Tausk.  
 arXiv:0812.2134 [hep-ph]  
 10.1103/PhysRevD.80.036003  
 Phys. Rev. D **80**, 036003 (2009)
15. **“On the tensor reduction of one-loop pentagons and hexagons”**  
 T. Diakonidis, J. Fleischer, J. Gluza, K. Kajda, T. Riemann and J. B. Tausk.  
 arXiv:0807.2984 [hep-ph]  
 10.1016/j.nuclphysbps.2008.09.091  
 Nucl. Phys. Proc. Suppl. **183**, 109 (2008)
16. **“Pentagon diagrams of Bhabha scattering”**  
 J. Fleischer, J. Gluza, K. Kajda and T. Riemann  
 Acta Phys. Polon. B **38**, 3529 (2007) [arXiv:0710.5100 [hep-ph]]  
*Contributed to 31st International Conference of Theoretical Physics: Matter to the Deepest: Recent Development in Physics of Fundamental Interactions, Ustron, Katowice, Poland, 5-11 Sep 2007*
17. **“First order radiative corrections to Bhabha scattering in d dimensions”**  
 J. Fleischer, J. Gluza, A. Lorca and T. Riemann  
 Eur. J. Phys. **48**, 35 (2006) [arXiv:hep-ph/0606210]
18. **“Sophisticated momenta mapping with DIANA”**  
 M. Tentyukov and J. Fleischer  
 Nucl. Instrum. Meth. A **559**, 229 (2006) [arXiv:hep-ph/0510414]  
*Talk given at 10th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 05), Zeuthen, Germany, 22-27 May 2005*
19. **“Top quark physics at colliders”**  
 E. W. N. Glover *et al.*  
 Acta Phys. Polon. B **35**, 2671 (2004) [arXiv:hep-ph/0410110]  
*Presented at Meeting of the European Network ‘Physics at Colliders’, Montpellier, France, 26-27 Sep 2004*
20. **“Diana And Applications To Fermion Production In Electron Positron Annihilation”**  
 J. Fleischer, A. Lorca and M. Tentyukov  
 Nucl. Instrum. Meth. A **534**, 284 (2004)  
*Prepared for 9th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 03), Tsukuba, Japan, 1-5 Dec 2003*
21. **“Automatized calculation of 2-fermion production with DIANA and aTALC”**  
 J. Fleischer, A. Lorca and T. Riemann  
 arXiv:hep-ph/0409034  
 SFB-CPP-04-38(2004)  
*To appear in the proceedings of International Conference on Linear Colliders (LCWS 04), Paris, France, 19-24 Apr 2004*

22. **“Extended joint ECFA/DESY study on physics and detector for a linear  $e^+e^-$  collider. Proceedings, Summer Colloquium, Amsterdam, Netherlands, April 4, 2003”**  
 K. Ackermann *et al.*  
 DESY-PROC-2004-01(2004)  
*Prepared for 4th ECFA / DESY Workshop on Physics and Detectors for a 90-GeV to 800-GeV Linear  $e^+e^-$  Collider, Amsterdam, The Netherlands, 1-4 Apr 2003*
23. **“Analytical result for the two-loop QCD correction to the decay  $H \rightarrow 2\gamma$ ”**  
 J. Fleischer, O. V. Tarasov and V. O. Tarasov  
 Phys. Lett. B **584**, 294 (2004) [arXiv:hep-ph/0401090]
24. **“Electroweak physics”**  
 W. Hollik *et al.*  
 Acta Phys. Polon. B **35**, 2533 (2004) [arXiv:hep-ph/0501246]  
*Prepared for Meeting of the European Network ‘Physics at Colliders’, Montpellier, France, 26-27 Sep 2004*
25. **“Summary of session 3”**  
 J. Fleischer  
 Nucl. Instrum. Meth. A **534**, 348 (2004)  
*Prepared for 9th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 03), Tsukuba, Japan, 1-5 Dec 2003*
26. **“Parallel computation of Feynman diagrams with DIANA”**  
 M. Tentyukov and J. Fleischer  
 Comput. Phys. Commun. **160**, 167 (2004) [arXiv:hep-ph/0311111]
27. **“A new hypergeometric representation of one-loop scalar integrals in d dimensions”**  
 J. Fleischer, F. Jegerlehner and O. V. Tarasov  
 Nucl. Phys. B **672**, 303 (2003) [arXiv:hep-ph/0307113]
28. **“Electroweak one-loop corrections for  $e^+e^-$  annihilation into  $t\bar{t}$  including hard bremsstrahlung”**  
 J. Fleischer, A. Leike, T. Riemann and A. Werthenbach  
 Eur. Phys. J. C **31**, 37 (2003) [arXiv:hep-ph/0302259]
29. **“Analytic epsilon-Expansion of the Scalar one-loop Bhabha Box Function”**  
 J. Fleischer, T. Riemann and O. V. Tarasov  
 Acta Phys. Polon. B **34**, 5345 (2003) [arXiv:hep-ph/0508194]  
*Prepared for 27th International Conference of Theoretical Physics: Matter to the Deepest: Recent Developments in Physics of Fundamental Interactions (Ustron 03), Ustron, Poland, 15-21 Sep 2003*
30. **“Massive two-loop Bhabha scattering: The factorizable subset”**  
 J. Fleischer, T. Riemann, O. V. Tarasov and A. Werthenbach  
 Nucl. Phys. Proc. Suppl. **116**, 43 (2003) [arXiv:hep-ph/0211167]  
*Talk given at 6th International Symposium on Radiative Corrections: Application of Quantum Field Theory Phenomenology (RADCOR 2002) and 6th Zeuthen Workshop on Elementary Particle Theory (Loops and Legs in Quantum Field Theory), Kloster Banz, Germany, 8-13 Sep 2002*
31. **“DIANA and selected applications”**  
 J. Fleischer, M. Tentyukov and O. V. Tarasov  
 Nucl. Phys. Proc. Suppl. **116**, 348 (2003) [arXiv:hep-ph/0211209]  
*Presented at 6th International Symposium on Radiative Corrections: Application of Quantum Field Theory Phenomenology (RADCOR 2002) and 6th Zeuthen Workshop on Elementary Particle Theory (Loops and Legs in Quantum Field Theory), Kloster Banz, Germany, 8-13 Sep 2002*
32. **“Status of electroweak corrections to top pair production”**  
 J. Fleischer, A. Leike, T. Riemann and A. Werthenbach  
 arXiv:hep-ph/0211428  
 DESY-02-203(2002)  
*Talk given at International Workshop on Linear Colliders (LCWS 2002), Jeju Island, Korea, 26-30 Aug 2002*

33. **“A Feynman diagram analyzer DIANA: Recent development”**  
M. Tentyukov and J. Fleischer  
Nucl. Instrum. Meth. A **502**, 570 (2003) [arXiv:hep-ph/0210179]  
*Contributed to 8th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 2002), Moscow, Russia, 24-28 Jun 2002*
34. **“Factorizing one-loop contributions to two-loop Bhabha scattering and automatization of Feynman diagram calculations”**  
J. Fleischer, O. V. Tarasov, T. Riemann and A. Werthenbach  
Nucl. Instrum. Meth. A **502**, 567 (2003) [arXiv:hep-ph/0210180]  
*Contributed to 8th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 2002), Moscow, Russia, 24-28 Jun 2002*
35. **“One-loop corrections to the process  $e^+e^- \rightarrow t\bar{t}$  including hard bremsstrahlung”**  
J. Fleischer, J. Fujimoto, T. Ishikawa, A. Leike, T. Riemann, Y. Shimizu and A. Werthenbach  
arXiv:hep-ph/0203220  
DESY-02-025(2002)  
*Talk given at the Workshop on Computer Particle Physics: (CPP 2001): Automatic Calculation for Future Colliders, Tokyo, Japan, 28-30 Nov 2001*
36. **“Complete electroweak one-loop radiative corrections to top-pair production at TESLA: A comparison”**  
J. Fleischer, T. Hahn, W. Hollik, T. Riemann, C. Schappacher and A. Werthenbach  
arXiv:hep-ph/0202109  
LC-TH-2002-002(2002)
37. **“A Feynman diagram analyser DIANA: Graphic facilities”**  
J. Fleischer and M. Tentyukov  
arXiv:hep-ph/0012189  
*Contribution to the proceedings of 7th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 2000), Batavia, Illinois, 16-20 Oct 2000*
38. **“Two-loop selfenergies in the standard model”**  
J. Fleischer, O. V. Tarasov and M. Tentyukov  
Nucl. Phys. Proc. Suppl. **89**, 112 (2000)  
*Prepared for Zeuthen Workshop on Elementary Particle Theory: Loops and Legs in Quantum Field Theory, Koenigstein-Weissig, Germany, 9-14 Apr 2000*
39. **“Single mass scale diagrams: Construction of a basis for the epsilon-expansion”**  
J. Fleischer and M. Y. Kalmykov  
Phys. Lett. B **470**, 168 (1999) [arXiv:hep-ph/9910223]
40. **“Algebraic reduction of one-loop Feynman graph amplitudes”**  
J. Fleischer, F. Jegerlehner and O. V. Tarasov  
Nucl. Phys. B **566**, 423 (2000) [arXiv:hep-ph/9907327] – 123 citations
41. **“ON-SHELL2: FORM based package for the calculation of two-loop self-energy single scale Feynman diagrams occurring in the standard model”**  
J. Fleischer and M. Y. Kalmykov  
Comput. Phys. Commun. **128**, 531 (2000) [arXiv:hep-ph/9907431]
42. **“Two-loop self-energy master integrals on shell”**  
J. Fleischer, M. Y. Kalmykov and A. V. Kotikov  
Phys. Lett. B **462**, 169 (1999) [arXiv:hep-ph/9905249]
43. **“Non factorizable  $O(\alpha_s)$  corrections to the process  $Z \rightarrow b\bar{b}$ ”**  
J. Fleischer, F. Jegerlehner, M. Tentyukov and O. Veretin  
Phys. Lett. B **459**, 625 (1999) [arXiv:hep-ph/9904256]
44. **“A Feynman diagram analyser DIANA”**  
M. Tentyukov and J. Fleischer  
Comput. Phys. Commun. **132**, 124 (2000) [arXiv:hep-ph/9904258]

45. **“Recursion relations for two-loop self-energy diagrams on shell”**  
 J. Fleischer, M. Y. Kalmykov and A. V. Kotikov  
 arXiv:hep-ph/9905379  
*Talk given at 6th International Workshop on New Computing Techniques in Physics Research: Software Engineering, Artificial Intelligence Neural Nets, Genetic Algorithms, Symbolic Algebra, Automatic Calculation (AIHENP 99), Heraklion, Crete, Greece, 12-16 Apr 1999*
46. **“DIANA, a program for Feynman diagram evaluation”**  
 M. Tentyukov and J. Fleischer  
 arXiv:hep-ph/9905560  
*Talk given at 6th International Workshop on New Computing Techniques in Physics Research: Software Engineering, Artificial Intelligence Neural Nets, Genetic Algorithms, Symbolic Algebra, Automatic Calculation (AIHENP 99), Heraklion, Crete, Greece, 12-16 Apr 1999*
47. **“Techniques for calculating two-loop diagrams”**  
 J. Fleischer and O. L. Veretin  
 arXiv:hep-ph/9901402  
*Presented at 4th International Symposium on Radiative Corrections (RADCOR 98): Applications of Quantum Field Theory to Phenomenology, Barcelona, Catalonia, Spain, 8-12 Sep 1998*
48. **“Analytic two-loop results for selfenergy- and vertex-type diagrams with one non-zero mass”**  
 J. Fleischer, A. V. Kotikov and O. L. Veretin  
 Nucl. Phys. B **547**, 343 (1999) [arXiv:hep-ph/9808242] – 166 citations
49. **“Applications of the large mass expansion”**  
 J. Fleischer, A. V. Kotikov and O. L. Veretin  
 Acta Phys. Polon. B **29**, 2611 (1998) [arXiv:hep-ph/9808243]  
*Talk given at Zeuthen Workshop on Elementary Particle Theory: Loops and Legs in Gauge Theories, Rheinsberg, Germany, 19-24 Apr 1998*
50. **“Two-loop QCD corrections of the massive fermion propagator”**  
 J. Fleischer, F. Jegerlehner, O. V. Tarasov and O. L. Veretin  
 Nucl. Phys. B **539**, 671 (1999) [Erratum-ibid. B **571**, 511 (2000)] [arXiv:hep-ph/9803493] – 133 citations
51. **“Large mass expansion versus small momentum expansion of Feynman diagrams”**  
 J. Fleischer, M. Y. Kalmykov and O. L. Veretin  
 Phys. Lett. B **427**, 141 (1998) [arXiv:hep-ph/9802262]
52. **“Multi-loop calculations in the standard model: Techniques and applications”**  
 J. Fleischer, M. Tentyukov and O. L. Veretin  
 Acta Phys. Polon. B **28**, 2333 (1997) [arXiv:hep-ph/9711437]  
*Talk given at 21st International School of Theoretical Physics (USTRON 97), Ustron, Poland, 19-24 Sep 1997*
53. **“Automation of Feynman diagram evaluation”**  
 M. Tentyukov and J. Fleischer  
 arXiv:hep-ph/9802243  
*Talk given at 12th International Workshop High-Energy Physics and Quantum Field Theory (QFTHEP 97), Samara, Russia, 4-10 Sep 1997*
54. **“Methods to calculate scalar two-loop vertex diagrams”**  
 J. Fleischer and M. Tentyukov  
 arXiv:hep-ph/9802244  
*Talk given at 12th International Workshop High-Energy Physics and Quantum Field Theory (QFTHEP 97), Samara, Russia, 4-10 Sep 1997*
55. **“The differential equation method: Calculation of vertex-type diagrams with one non-zero mass”**  
 J. Fleischer, A. V. Kotikov and O. L. Veretin  
 Phys. Lett. B **417**, 163 (1998) [arXiv:hep-ph/9707492]

56. **“Calculation of infrared-divergent Feynman diagrams with zero mass threshold”**  
 J. Fleischer, V. A. Smirnov, A. Frink, J. G. Korner, D. Kreimer, K. Schilcher and J. B. Tausk  
 Eur. Phys. J. C **2**, 747 (1998) [arXiv:hep-ph/9704353]
57. **“Towards automatic analytic evaluation of massive Feynman diagrams”**  
 L. Avdeev, J. Fleischer, M. Y. Kalmykov and M. Tentyukov  
 Nucl. Instrum. Meth. A **389**, 343 (1997) [arXiv:hep-ph/9610467]  
*Talk given at 5th International Workshop on New Computing Techniques in Physics Research: Software Engineering, Neural Nets, Genetic Algorithms, Expert Systems, Symbolic Algebra, Automatic Calculations (AIHENP 96), Lausanne, Switzerland, 2-6 Sep 1996*
58. **“Towards automatic analytic evaluation of diagrams with masses”**  
 L. V. Avdeev, J. Fleischer, M. Y. Kalmykov and M. N. Tentyukov  
 Comput. Phys. Commun. **107**, 155 (1997) [arXiv:hep-ph/9710222]  
*Presented at 5th International Workshop on New Computing Techniques in Physics Research: Software Engineering, Neural Nets, Genetic Algorithms, Expert Systems, Symbolic Algebra, Automatic Calculations (AIHENP 96), Lausanne, Switzerland, 2-6 Sep 1996*
59. **“Calculation of Feynman diagrams with zero mass threshold from their small momentum expansion”**  
 J. Fleischer, V. A. Smirnov and O. V. Tarasov  
 Z. Phys. C **74**, 379 (1997) [arXiv:hep-ph/9605392]
60. **“Computer algebra in science and engineering. Proceedings, Workshop, Bielefeld, Germany, August 28-31, 1994”**  
 J. Fleischer, J. Grabmeier, F. W. Hehl and W. Kuechlin  
 C94-08-28.1()  
*Singapore, Singapore: World Scientific (1995) 356 p*
61. **“Calculation of Feynman diagrams with low thresholds from their small momentum expansion”**  
 J. Fleischer and O. V. Tarasov  
 Nucl. Phys. Proc. Suppl. **51C**, 295 (1996)  
*Prepared for Zeuthen Workshop on Elementary Particle Theory: QCD and QED in Higher Orders, Rheinsberg, Germany, 21-26 Apr 1996*
62. **“Calculation of two-loop vertex functions from their small momentum expansion”**  
 J. Fleischer  
 Int. J. Mod. Phys. C **6**, 495 (1995)  
*Prepared for 4th International Workshop on Software Engineering and Artificial Intelligence for High-energy and Nuclear Physics (AIHENP 95), Pisa, Italy, 3-8 April 1995*
63. **“Two loop large top mass corrections to electroweak parameters: Analytic results valid for arbitrary Higgs mass”**  
 J. Fleischer, O. V. Tarasov and F. Jegerlehner  
 Phys. Rev. D **51**, 3820 (1995)
64. **“Algorithmic Calculation Of Two Loop Feynman Diagrams”**  
 J. Fleischer and O. V. Tarasov  
 arXiv:hep-ph/9502257  
 BI-TP-94-61(1994)  
*Contributed to Computer Algebra in Science and Engineering, Bielefeld, Germany, 28-31 Aug 1994*
65. **“Application of conformal mapping and Pade approximants (omega P’s) to the calculation of various two-loop Feynman diagrams”**  
 J. Fleischer and O. V. Tarasov  
 Nucl. Phys. Proc. Suppl. **37B**, 115 (1994) [arXiv:hep-ph/9407235]  
*Prepared for Zeuthen Workshop on Elementary Particle Theory: Physics at LEP200 and Beyond, Teupitz, Germany, 10-15 Apr 1994*
66. **“ $0(\alpha_s^2)$  correction to the electroweak  $\rho$  parameter”**  
 L. Avdeev, J. Fleischer, S. Mikhailov and O. Tarasov  
 Phys. Lett. B **336**, 560 (1994) [Erratum-ibid. B **349**, 597 (1995)] [arXiv:hep-ph/9406363] – 250 citations

67. **“EWW: A generator for  $e^+e^- \rightarrow W^+W^-$  including one loop and leading photonic two loop corrections”**  
 J. Fleischer, F. Jegerlehner, K. Kolodziej and G. J. van Oldenborgh  
 Comput. Phys. Commun. **85**, 29 (1995) [arXiv:hep-ph/9405380]
68. **“Calculation of Feynman diagrams from their small momentum expansion”**  
 J. Fleischer and O. V. Tarasov  
 Z. Phys. C **64**, 413 (1994) [arXiv:hep-ph/9403230] – 127 citations
69. **“Two loop gluon condensate contributions to heavy quark current correlators: Exact results and approximations”**  
 D. J. Broadhurst, P. A. Baikov, V. A. Ilyin, J. Fleischer, O. V. Tarasov and V. A. Smirnov  
 Phys. Lett. B **329**, 103 (1994) [arXiv:hep-ph/9403274] – 114 citations
70. **“QCD corrections for heavy quark effects at LEP/SLC and NLC”**  
 J. Fleischer, L. V. Avdeev and O. V. Tarasov  
*Prepared for Tennessee International Symposium on Radiative Corrections: Status and Outlook, Gatlinburg, TN, 27 Jun - 1 Jul 1994*
71. **“Transverse versus longitudinal polarization effects in  $e^+e^- \rightarrow W^+W^-$ ”**  
 J. Fleischer, K. Kolodziej and F. Jegerlehner  
 Phys. Rev. D **49**, 2174 (1994)
72. **“Two loop heavy top corrections to the  $\rho$  parameter: A Simple formula valid for arbitrary Higgs mass”**  
 J. Fleischer, O. V. Tarasov and F. Jegerlehner  
 Phys. Lett. B **319**, 249 (1993) – 194 citations
73. **“Two loop two point functions with masses: Asymptotic expansions and Taylor series, in any dimension”**  
 D. J. Broadhurst, J. Fleischer and O. V. Tarasov  
 Z. Phys. C **60**, 287 (1993) [arXiv:hep-ph/9304303] – 223 citations
74. **“Application of Pade approximants to the calculation of Feynman diagrams”**  
 J. Fleischer  
*Prepared for 3rd International Workshop on Software Engineering, Artificial Intelligence and Expert systems for High-energy and Nuclear Physics, Oberammergau, Germany, 4-8 Oct 1993*
75. **“Two Loop  $O(\alpha_s G_\mu M_T^2)$  Corrections to the Partial Decay Width of the  $Z_0$  into  $B\bar{B}$  Final States In The Large Top Mass Limit”**  
 J. Fleischer, O. V. Tarasov, F. Jegerlehner and P. Raczka  
 Phys. Lett. B **293**, 437 (1992) – 153 citations
76. **“Two-loop on-shell calculations in QCD”**  
 J. Fleischer  
*Prepared for 1st German-Polish Symposium on Particles and Fields, Rydzyna Castle, Poland, 28 Apr - 2 May 1992*
77. **“Gauge invariant on-shell Z(1) in QED and QCD”**  
 J. Fleischer and O. V. Tarasov  
 Phys. Lett. B **283**, 129 (1992)
78. **“Polarization effects in W pair production in  $e^+e^-$  annihilation”**  
 J. Fleischer  
*Given at Adriatico Research Conference on Polarization Dynamics in Nuclear and Particle Physics, Trieste, Italy, 7-10 Jan 1992*
79. **“Approximations for  $e^+e^- \rightarrow W^+W^-$ ”**  
 A. Denner, S. Dittmaier, J. Fleischer, J. L. Kneur, K. Kolodziej, M. Kuroda and D. Schildknecht  
 BI-TP-91-35(1991)  
*To be published in ‘ $e^+e^-$  Collisions at 500-GeV, the Physics Potential’, edited by P. Zerwas, DESY, Hamburg*



80. **“SHELL2: Package for the calculation of two loop on-shell Feynman diagrams in FORM”**  
J. Fleischer and O. V. Tarasov  
Comput. Phys. Commun. **71**, 193 (1992)
81. **“W pair production in  $e^+e^-$  annihilation: Radiative corrections including hard bremsstrahlung”**  
J. Fleischer, K. Kolodziej and F. Jegerlehner  
Phys. Rev. D **47**, 830 (1993)
82. **“One loop improved Born approximation for  $e^+e^- \rightarrow W^+W^-$ ”**  
J. Fleischer, J. L. Kneur, K. Kolodziej, M. Kuroda and D. Schildknecht  
Nucl. Phys. B **378**, 443 (1992) [Erratum-ibid. B **426**, 246 (1994)]
83. **“W pair production in  $e^+e^-$  annihilation including hard bremsstrahlung”**  
J. Fleischer  
*In \*Warsaw 1991, Proceedings, Puzzles on the electroweak scale\* 121-124*
84. **“ELASTIC nucleon-nucleon scattering in a gauge field theory”**  
J. Fleischer and M. Pindor  
BI-TP-04-89  
*Lisbon School 1989:292-302*
85. **“Approximate four loop analysis of the R ( $e^+e^-$ ) ratio in QCD”**  
J. Fleischer, M. Pindor, P. A. Raczka and R. Raczka  
BI-TP-05/89
86. **“Elastic nucleon nucleon scattering in an effective gauge field theory”**  
J. Fleischer  
*In Lisbon 1989, Proceedings, Hadrons: Their structure and interactions 292-302. (see Conference Index)*
87. **“Radiative corrections for W pair production in  $e^+e^-$  annihilation”**  
J. Fleischer  
*In \*Kazimierz 1989, Proceedings, Frontiers in particle physics\* 255-264*
88. **“What may be expected from perturbative QCD in four loop order and beyond”**  
J. Fleischer, M. Pindor, P. A. Raczka and R. Raczka  
*In \*Kazimierz 1989, Proceedings, Frontiers in particle physics\* 412-421*
89. **“Effective gauge field theory for hadron physics”**  
J. Fleischer  
BI-TP-88/30(1988)  
*Lectures at Workshop on Gauge Theories of Fundamental Interactions, Warsaw, Poland, Oct 1988*
90. **“Radiative Corrections To Helicity Amplitudes For W Pair Production In  $e^+e^-$  Annihilation”**  
J. Fleischer, F. Jegerlehner and M. Zralek  
Z. Phys. C **42**, 409 (1989) – 158 citations
91. **“Radiative corrections to helicity amplitudes for the process  $e^+e^- \rightarrow W^+W^-$ ”**  
J. Fleischer, F. Jegerlehner and M. Zralek  
BI-TP-88/03(1987)  
*Presented at 11th Int. School of Theoretical Physics, Testing the Standard Model, Szczyrk, Poland, Sep 18-22, 1987*
92. **“Electroweak radiative corrections at LEP energies”**  
A. Barroso *et al.*  
CERN-EP-87-70(1987)  
*Presented at LEP 200 ECFA Workshop, Aachen, West Germany, Sep 29 - Oct 1, 1986*
93. **“O ( $\alpha$ ) corrections to Higgs production processes at LEP energies”**  
J. Fleischer and F. Jegerlehner  
BI-TP-87/04(1987)

94. **“The On-Shell Renormalization Scheme In The GWS Model”**  
 J. Fleischer  
 Acta Phys. Polon. B **17**, 897 (1986)  
*Presented at 9th Silesian School of Theoretical Physics, Szczyrk, Poland, Sep 1985*
95. **“Variational operator Pade approximants and applications to the nucleon nucleon scattering”**  
 J. Fleischer  
*In Lisbon 1986, Proceedings, Models and methods in few-body physics, 201-216.*
96. **“High-Energy Behavior Of The Electromagnetic Singlet Current In The Glashow-Weinberg-Salam Model”**  
 F. Jegerlehner and J. Fleischer  
 Phys. Lett. B **151**, 65 (1985)
97. **“Singlet Form-Factors And Local Observables In The Glashow-Weinberg-Salam Model”**  
 F. Jegerlehner and J. Fleischer  
 Acta Phys. Polon. B **17**, 709 (1986)
98. **“Radiative  $Z$  and  $W^{+-}$  Decays: Precise Predictions from the Standard Model”**  
 J. Fleischer and F. Jegerlehner  
 Z. Phys. C **26**, 629 (1985)
99. **“Testing Heavy Fermions In Higgs Production By  $e^+e^- \rightarrow Z H$ ”**  
 J. Fleischer and F. Jegerlehner  
 Nucl. Phys. B **228**, 1 (1983) – 110 citations
100. **“Radiative Corrections To Higgs Production By  $e^+e^- \rightarrow Z H$  In The Weinberg-Salam Model”**  
 J. Fleischer and F. Jegerlehner  
 Nucl. Phys. B **216**, 469 (1983)
101. **“Evaluation Of Operator Pade Approximants For Perturbative Expansions In Scattering Theory”**  
 J. Fleischer and M. Pindor  
 Phys. Rev. D **24**, 1978 (1981)
102. **“Bethe-Salpeter Equation For Elastic Nucleon Nucleon Scattering”**  
 J. Fleischer and J. A. Tjon  
 Phys. Rev. D **21**, 87 (1980)
103. **“Radiative Corrections To Higgs Decays In The Extended Weinberg-Salam Model”**  
 J. Fleischer and F. Jegerlehner  
 Phys. Rev. D **23**, 2001 (1981) – 290 citations
104. **“Elastic Nucleon-Nucleon Scattering In A Gauge Field Theory”**  
 K. Fabricius and J. Fleischer  
 Phys. Rev. D **19**, 353 (1979)
105. **“Nucleon-Nucleon Scattering In A Nonabelian Gauge Theory. (Talk)”**  
 K. Fabricius and J. Fleischer  
*In \*Graz 1978, Proceedings, Few Body Systems and Nuclear Forces, Vol.1\*, Berlin 1978, 5-8*
106. **“Bethe-Salpeter Equation For  $I=1$  Nucleon-Nucleon Scattering With One Boson Exchange”**  
 J. Fleischer and J. A. Tjon  
 Phys. Rev. D **15**, 2537 (1977)
107. **“Evaluation Of Phase Space Volumes And Inclusive Spectra In The Uncorrelated Jet Model”**  
 J. Engels and J. Fleischer  
 J. Comput. Phys. **23**, 200 (1977)
108. **“Isospin Form-Factors In A Yang-Mills Model For Strong Interactions”**  
 K. Fabricius, I. Schmitt and J. Fleischer  
*Wuppertal Univ - WU B 77-12 (77,REC.NOV) 17p*

109. **“Operator Pade Approximants For The Bethe-Salpeter Equation Of Nucleon-Nucleon Scattering”**  
 J. Fleischer and J. A. Tjon  
*In \*Tampa 1976, Proceedings, Pade and Rational Approximation\*, New York 1977, 357-363*
110. **“Bethe-Salpeter equation for  $J = 0$  nucleon-nucleon scattering with one-boson exchange”**  
 J. Fleischer and J. A. Tjon  
 Nucl. Phys. B **84** (1975) 375  
 doi:10.1016/0550-3213(75)90313-2 – 113 citations
111. **“Legendre Pade Approximants In Pi N Scattering”**  
 J. Engels and J. Fleischer  
 Nuovo Cim. A **24**, 73 (1974)
112. **“Matrix Pade approximants for the (1)s(0) and (3)p(0) partial waves in nucleon-nucleon scattering”**  
 J. Fleischer, J. L. Gammel and M. T. Menzel  
 Phys. Rev. D **8**, 1545 (1973)
113. **“Nonlinear Pade approximants for Legendre series”**  
 J. Fleischer  
 J. Math. Phys. **14**, 246 (1973)
114. **“Partial wave analysis of nucleon-nucleon bethe-salpeter equation on the computer”**  
 J. Fleischer  
*Publ. Math. Sci. (1973) 112-123*
115. **“Analytic continuation of scattering amplitudes and Pade approximants”**  
 J. Fleischer  
 Nucl. Phys. B **37**, 59 (1972) [Erratum-ibid. B **44**, 641 (1972)]
116. **“On The Pion Form Factor In A Bethe-Salpeter Model”**  
 J. Fleischer and F. Gutbrod  
 Nuovo Cim. A **10**, 235 (1972)
117. **“N/D Calculations For The P(33) Pi N Partial Wave With Effective Lagrangian Input”**  
 J. Engels and J. Fleischer  
 Nuovo Cim. A **2**, 384 (1971)
118. **“Non-forward photoproduction of  $\rho^0$  mesons from complex nuclei”**  
 J. Fleischer  
 Nucl. Phys. B **7** (1968) 47.  
 doi:10.1016/0550-3213(68)90167-3
119. **Dissertation:**  
 Dr. rer. nat., Universität des Saarlandes, 1966, Germany  
**“Über die Streuung relativistischer Elektronen im Coulombfeld”**  
 Mathematics Subject Classification: 78Optics, electromagnetic theory  
 Quelle: <https://www.genealogy.math.ndsu.nodak.edu/id.php?id=172791>