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List of publications

I. Refereed journal articles:

1. P. A. Amundsen and L. Kocbach: Electronic relativistic effects in the K-shell ionization of heavy atoms by massive charged particles. *J. Phys. B* **8**, L122-6 (1975).
2. P. A. Amundsen: Position operators and transformation properties of a relativistic Hamiltonian theory for any spin. *Phys. Norv.* **8**, 107-12 (1975).
3. P. A. Amundsen: A note on the projectile charge dependence of inner shell ionization of atoms by heavy charged particles. *Phys. Lett. A* **55**, 79-80 (1975).
4. P. A. Amundsen: Electronic relativistic effects in K-shell Coulomb ionization by heavy charged particles. *J. Phys. B* **9**, 971-83 (1976).
5. P. A. Amundsen, L. Kocbach and J. M. Hansteen: Approximate corrections for electronic relativistic effects in K-shell ionization of atoms by ions. *J. Phys. B* **9**, L203-6 (1976).
6. R. J. Vader, A. van der Woude, R. J. de Meijer, J. M. Hansteen and P. A. Amundsen: K-shell ionization probabilities of Pb at small impact parameters by 25-, 40-, and 75MeV α -particles. *Phys. Rev. A* **14**, 62-7 (1977).
7. P. A. Amundsen: Electronic relativistic effects and Coulomb deflection of the projectile in L-shell ionization of atoms by light ions. *J. Phys. B* **10**, 1097-112 (1977).
8. P. A. Amundsen: Coulomb deflection effects in ion-induced K-shell ionization. *J. Phys. B* **10**, 2177-87 (1977).
9. P. A. Amundsen: On the role of dipole transitions in the semiclassical approximation for K-shell ionization. *J. Phys. B* **11**, 3197-220 (1978).
10. O. Aashamar, P. A. Amundsen and L. Kocbach: Proton-induced L-shell ionization at large scattering angles. *Phys. Lett. A* **67**, 349-50 (1978).
11. P. A. Amundsen: Impact parameter dependence of K-shell vacancy production in the heavy partner in ion-atom collisions. *J. Phys. B* **11**, L737-41 (1978).
12. D. H. Jakubaša and P. A. Amundsen: Equivalence of the adiabatic approximation and the Born approximation for excitations in slowly colliding asymmetric systems. *J. Phys. B* **12**, L725-8 (1979).
13. P. A. Amundsen and D. H. Jakubaša: Charge transfer in asymmetric heavy-ion collisions. *J. Phys. B* **13**, L467-9 (1980).
14. D. H. Jakubaša-Amundsen and P. A. Amundsen: On the semiclassical impulse approximation for electron capture in asymmetric ion-atom collisions. *Z. Phys. A* **297**, 203-14 (1980).
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16. K. Aashamar and P. A. Amundsen: Wavefunction effects in inner shell ionization of light atoms by protons. *J. Phys. B* **14**, 483-500 (1981).
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20. D. H. Jakubaša-Amundsen and P. A. Amundsen: On the validity of the impulse approximation for electron capture in asymmetric collisions. *J. Phys. B* **14**, L705-10 (1981).

21. P. A. Amundsen and D. H. Jakubaša-Amundsen: Charge transfer at large scattering angles in asymmetric ion-atom collisions. *Phys. Scr.* **26**, 155-62 (1982).
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61. N. R. Tolich, P. H. Barker and P. D. Harty and P. A. Amundsen: Energy of the ^{14}O Superallowed Positron Decay. *Phys. Rev. C* **67**, 35503 (2003).
62. T. H. Omland, J. Øvsthus, K. Svanes, A. Saasen, H.-J. Jacob, T. Sveen, H. Hodne and P. A. Amundsen: Weighting Material Sag. *Ann. Trans. Nord. Rheo. Soc.* **12**, 115-21 (2004).
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66. T. H. Omland, A. Saasen and P. A. Amundsen: Detection Techniques Determining Weighting Material Sag in Drilling Fluids and Relationship to Rheology. *Trans. Nord. Rheo. Soc.* **15**, 277-85 (2007).
67. P. A. Amundsen, S. Ding, B. K. Datta, T. Torkildsen, and A. Saasen: Magnetic Shielding Positioning, *SPE Drilling & Completion* **25** 219-22 (2009).
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71. T. H. Omland, H. Hodne, A. Saasen, S. Mjølhus and P. A. Amundsen: Drilling Fluid Weight Material Sedimentation – Sedimentation of suspensions. *Petroleum Science and Technology* **122** 1473-82 (2013).
72. D. Shogin, P. A. Amundsen and S. Hervik: On the viability of the truncated Israel-Stewart theory in cosmology. *Classical and Quantum Gravity* **32** 195012 (2015).
73. A. Saasen, S. X. Ding, P. A. Amundsen, K. Tellefsen: The Shielding Effect of Drilling Fluids on Measurement While Drilling Tool Downhole Compasses – The Effect of Drilling Fluid Composition, Contaminants, and Rheology. *Journal of Energy Resources Technology – Transactions of the ASME* **138** 052907 (2016).
74. D. Shogin and P. A. Amundsen: Local equilibrium solutions in simple anisotropic cosmological models, as described by relativistic fluid dynamics. *Classical and Quantum Gravity* **33** 205009 (2016).
75. D. Shogin and P. A. Amundsen: The Charged FENE-P Dumbbell model: explaining the rheology of dilute polyelectrolyte solutions. *Phys. Fluids* **32** 063101 (2020).

II. Invited talks:

1. P. A. Amundsen: Relativistic calculations of Coulomb ionization. In *Notes from the Nordic Spring Symposium on Atomic Inner Shell Phenomena* (eds. J. M. Hansteen and R. Gundersen) **2**, 43-64 (Bergen 1978).
2. P. A. Amundsen: The QCD vacuum. Theory Circus, Max Planck Institut für Quantenoptik, Garching b. München, July 1992.
3. P. A. Amundsen and M. Schaden: The QCD vacuum in the field strength formalism. Workshop on QCD Vacuum Structure and its Applications, Paris, June 1992. In *QCD Vacuum Structure* (eds. B. Müller and H. M. Fried) (World Scientific, Singapore) 39-47 (1993).
4. P. A. Amundsen: Magnetic shielding effects from a drilling fluid and its influence on directional drilling. Presented at 2nd Quarter Meeting of the European Drilling Engineering Association (DEA(e)) at Tanganger, June 2005.
5. P. A. Amundsen: Bronze age astronomy. Nordic Planetarium Association meeting, Sandnes September 2009.

III. Selected conference contributions:

1. P. A. Amundsen: Electronic relativistic effects in inner shell Coulomb ionization by heavy charged particles. Annual meeting of the Norwegian Physical Society, Bergen 1975. Abstract in *Phys. Norv.* **8**, 175 (1976).
2. P. A. Amundsen: Electronic relativistic effects in proton-induced inner shell ionization. 2nd International Conference on Inner Shell Ionization Phenomena, Freiburg 1976. Conference abstracts p. 238.
3. P. A. Amundsen and L. Kocbach: Inner shell ionization during nuclear alpha decay. Annual meeting of the Norwegian Physical Society, Tromsø 1976.
4. P. A. Amundsen and O. Aashamar: Coulomb deflection and wavefunction dependence in proton-induced L-shell ionization. 10th International Conference on the Physics of Electronic and Atomic Collisions, Paris 1977. Conference abstracts **1**, 60.
5. P. A. Amundsen: Impact parameter dependence of K vacancy production in slow ion-atom collisions. Annual meeting of the Norwegian Physical Society, Oslo 1978. Abstract in proceedings, p. 12.
6. K. Aashamar and P. A. Amundsen: Impact parameter dependence of inner shell ionization of light atoms by protons. 11th International Conference on the Physics of Electronic and Atomic Collisions, Kyoto 1979. Conference abstracts p. 688.
7. D. H. Jakubaša and P. A. Amundsen: Elektron-Transfer bei der Streuung schwerer Ionen. 1. Arbeitstagung Energiereiche Atomare Stöße, Oberstdorf 1980. Abstract in Arbeitsbericht p. 180.
8. P. A. Amundsen: Charge transfer in asymmetric ion-atom collisions. NATO ASI institute on atomic and molecular collision theory, Cortona 1980.
9. D. H. Jakubaša-Amundsen and P. A. Amundsen: Electron capture at relativistic velocities. European Conference on Atomic Physics, Heidelberg 1981. Book of abstracts p. 861.
10. P. A. Amundsen and K. Aashamar: The SCA for K-shell ionization by relativistic ions. 12th International Conference on the Physics of Electronic and Atomic Collisions, Gatlinburg, Tenn. 1981. Book of Abstracts p. 558.

11. P. A. Amundsen and R. Anholt: K-shell ionization during alpha decay. 12th International Conference on the Physics of Electronic and Atomic Collisions, Gatlinburg, Tenn. 1981. Book of abstracts p. 560.
12. P. A. Amundsen: Nuclear time-delay effects in proton-induced K-shell ionization. 7th International Symposium on Ion-Atom Collisions, Storrs, Conn. 1981.
13. P. A. Amundsen and K. Aashamar: Wavefunction effects in inner shell ionization. 3. Arbeitstagung Energieriche Atomare Stöße, Schönau 1982. Abstract in Arbeitsbericht p. 112-3.
14. P. A. Amundsen and D. H. Jakubaßa-Amundsen: Time-delay effects in atomic charge transfer. Workshop on Inner Shell Ionization and Nuclear Physics, Bergerac 1983.
15. P. A. Amundsen and D. H. Jakubaßa-Amundsen: The Strong potential Born approximation for charge transfer at large scattering angles. 13th International conference on the Physics of Electronic and Atomic Collisions, Berlin 1983. Book of abstracts p. 508.
16. P. A. Amundsen and D. H. Jakubaßa-Amundsen: Charge transfer in the presence of a nuclear resonance. 8th International Symposium on Ion-Atom Collisions, Utrecht 1983.
17. P. A. Amundsen and K. Aashamar: Inner-Schalen-Ionisation in Anwesenheit einer Kernresonanz. 6. Arbeitstagung Energieriche Atomare Stöße, Oberstdorf, Januar 1985. Abstract in Arbeitsbericht p. 140-1.
18. D. H. Jakubaßa-Amundsen and P. A. Amundsen: Nuclear resonance effects in the electron capture probability in ion-atom collisions. The 2nd European Conference on Atomic Physics, Amsterdam, April 1985. Book of abstracts p. 323.
19. P. A. Amundsen and D. H. Jakubaßa-Amundsen: L-schalenionisation mit gekoppelten Unterschalen. 8. Arbeitstagung Energieriche Atomare Stöße, Oberstdorf, January 1987. Abstract in Arbeitsbericht p. 83.
20. P. A. Amundsen and D. H. Jakubaßa-Amund: Coupled subshell approximation for L-shell ionization. 15th International Conference on the Physics of Electronic and Atomic collisions, Brighton 1987. Book of abstracts p. 625.
21. R. Alkofer, P. A. Amundsen and H. Reinhardt: Temperature dependence of η and η' production in heavy ion collisions. The 8th Nordic Meeting on Intermediate and High-energy Nuclear Physics, Geilo, January 1989. Abstract in proceedings.
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23. R. Salziger, G. L. Borchert, D. Gotta, O. W. B. Schult, D. H. Jakubaßa-Amundsen, P. A. Amundsen and K. Rashid: K X-ray spectra of heavy atoms bombarded with energetic ions. 3rd European Conference on Atomic and Molecular Physics, Bordeaux April 1989. Book of abstract p. 321.
24. G. L. Borchert, D. Gotta, R. Salziger, O. W. B. Schult, P. Wieder, K. Rashid, D. H. Jakubaßa-Amundsen and P. A. Amundsen: Satellite structure of K X-rays during heavy ion bombardment. 10. Arbeitstagung Energieriche Atomare Stöße, Oberstdorf, January 1989. Abstract in Arbeitsbericht p. 107-8.
25. K. Langfeld, M. Schaden, H. Reinhardt, P. A. Amundsen and M. J. Lavelle: QCD vacuum structure in the field strength formulation. Joint meeting of the German and French physical societies, Strasbourg, April 1990. Abstract in Verhandlungen der Deutsche Physikalische Gesellschaft.
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27. P. A. Amundsen: QCD-vakuuet i feltstyrke-formalisme, Utstein-møtet i teoretisk fysikk, Norsk fysisk selskap, Utstein kloster, November 1992.
28. P. A. Amundsen: The field strength formulation of QCD. Nordic network meeting in Theoretical Physics. NORDITA, Copenhagen, September 1993.
29. P. A. Amundsen: Atomic excitation during nuclear reaction. 2. Utstein-møte i teoretisk fysikk, Norsk fysisk selskap, Kronen gård, November 1993.
30. P. A. Amundsen: Atomic energy loss corrections for (p,n) and (p,γ) nuclear reactions. Møte, atom- og molekylfysikk samarbeidsgruppe. Bergen, April 1996 p. 149-68.
31. T. Torkildsen, I. Edvardsen, S. McCulloch, A. Fjogstad, A. Saasen, P. A. Amundsen and T. H. Omland: Drilling Fluid Affects MWD Magnetic Azimuth and Wellbore Position. SPE 87169. IADC/SPE Drilling Conference, Dallas, Tx (2004)

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33. T. H. Omland, T. Jørgensen, A. Saasen, K. Taugbøl, B. Dahl, F. Reinholdt, N. Scholz, S. Ekrene, E. Villard, P. A. Amundsen, M. Fries and A. Steele: Improved Drilling Process Control Through Continuous Particle and Cuttings Monitoring. SPE 107547. SPE Digital Energy Conference and Exhibition, Houston, TX, USA April 2007.
34. T. H. Omland, A. Saasen, C. van der Zwaag and P. A. Amundsen: The Effect on Weighting Material Sag on Drilling Operation Efficiency. SPE 110537, SPE Asia Pacific Oil & Gas Conference and Exhibition, Jakarta Indonesia, October/November 2007.
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37. S. Ding, F. von Hafenbrädl, A. Saasen, and P. A. Amundsen: Preliminary investigation into magnetite powder's magnetic shielding effect on drilling fluid, RELPOWFLO IV 2008, Tromsø, Norway.
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39. S. Ding, B. K. Datta, A. Saasen and P. A. Amundsen: Experimental investigation into shielding effect of magnetic powders in drilling fluids, in AICHE 08. Philadelphia, Pennsylvania, USA 2008.
40. S. M. Osnes, P. A. Amundsen, T. Weltzin, E. Nyrnes, B. L. Hundstad and G. Grindhaug: MWD Vibration Measurements: A Time for Standardisation. SPE 119877, PE/IADC Drilling Conference and Exhibition, Amsterdam, The Netherlands, March 2009.
41. K. Tellefsen, S. Ding, A. Saasen, P. A. Amundsen, A. Fjogstad, T. Torkildsen: The Effect of Drilling Fluid Content on Magnetic Shielding of Downhole Compasses in MWDs. SPE Deepwater Drilling and Completion Conference, Galveston, Tx, 20-21 June 2012.
42. C. Hoftun, B. W. Johansen, K. Naesje, P. S. Adl, D. Paulsen, R. Valen, B. S. Dalen, P. Lee, B. Glass, C. P. McKay, K. Zacny, S. Vijendran, P. A. Amundsen, G. Pattarini, S. Mohamad, and F. Wabakken: Plasma Drill for Mars Exploration. Earth and Space 2016, 11-15 April 2016. Proceedings p. 725-33.
43. G. Pattarini, S. Rawlins, A. Saasen, P. A. Amundsen, B. Poedjono: Direction Drilling Measurement Errors Caused by Drilling fluid Constituents. OMAE2016-54044, ASME 2016 35th International Conference on Ocean, Offshore and Arctic Engineering, Busan, South Korea, 19-24 June 2016.
44. G. Pattarini, K. M. Strømø, A. Saasen, P. A. Amundsen, J. E. Pallin, H. Hodne: Ditch Magnet Removal of Steel Particles. SPE Bergen One Day Seminar, Bergen, Norway, 5 April 2017, SPE-185939.