

Publications, conference contributions, and public talks (Publikationen, Tagungsbeiträge und öffentliche Vorträge)

Hans Jelitto (Juli 2018)

Areas of Research (marked in terms of colour)/ Forschungsbereiche (farblich markiert):

A. Nuclear Physics/ Kernphysik

B. Pyramids Research (Pyramids of Giza)/ Pyramidenforschung

C. Materials Research (Fracture Mechanics)/ Materialforschung (Bruchmechanik)

D. Miscellaneous/ Sonstiges

* labeled by an asterisk: papers, other written publications, and recorded talks/
Zeitschriftenartikel, sonstige schriftliche Publikationen und aufgenommene Vorträge

- (1.*)** H. Jelitto: Aufnahme der Balmer- α -Linie ohne Dopplerverbreiterung an einem Strahl metastabiler Wasserstoffatome. Diplomarbeit, Institut für Angewandte Physik der Rheinischen Friedrich-Wilhelms-Universität Bonn und Institut für Kernphysik III, Kernforschungszentrum Karlsruhe (heute: KIT, Campus Nord), interner Report (1983)
- 2.** Contributions in 'Annual Report on Nuclear Physics Activities, July 1, 1983 – June 30, 1984', Kernforschungszentrum Karlsruhe, Report [KfK-3815](#) (Okt. 1984) 156, 158
- 3.*** J. Buschmann, H.J. Gils, H. Jelitto, J. Krisch, G. Ludwig, D. Manger, H. Rebel, W. Seith, S. Zagromski: The vacuum system of the Karlsruhe magnetic spectrograph 'Little John'. Kernforschungszentrum Karlsruhe, [KfK-3681B](#) (Febr. 1985)
- 4.** H.J. Gils, J. Buschmann, S. Zagromski, H. Jelitto, H. Rebel, H. Schlösser: Erste Ergebnisse mit dem Karlsruher Magnetspektrographen 'Little John'. Gruppenbericht (Vortrag, 10 Min.) der 49. Frühjahrstagung Physik in München (11.–15. März 1985), **Verh. DPG 6/20 (3/1985)** 520
- 5.** Contributions in 'Annual Report on Nuclear Physics Activities, July 1, 1984 – June 30, 1985', Kernforschungszentrum Karlsruhe, [KfK-3969](#) (Okt. 1985) 33, 40, 47
- 6.** H. Jelitto, J. Buschmann, H.J. Gils, J. Kiener, H. Rebel, S. Zagromski: Experimentelle Untersuchungen des Aufbruchs von 156 MeV ^6Li -Ionen unter extremen Vorwärtswinkeln. Gruppenbericht (Vortrag, 10 Min.) auf der 50. Frühjahrstagung Physik in Heidelberg (17.–21. März 1986), **Verh. DPG 6/21 (4/1986)** 613
- 7.** Contributions in 'Annual Report on Nuclear Physics Activities, July 1, 1985 – June 30, 1986', Kernforschungszentrum Karlsruhe, [KfK-4159](#) (Dez. 1986) 29, 31, 40
- 8.** H. Jelitto, H.J. Gils, H. Rebel, S. Zagromski: Measurements of light particle emission at very forward angles in ^6Li -induced reactions at 26 MeV per nucleon. Beitrag (Oral presentation, 30 Min.) at the 'Brasov International Summer School – Symmetries and Semiclassical Features of Nuclear Dynamics' in Poiana Brasov, Rumänien (Sept. 1986)
- 9.** H. Jelitto, J. Buschmann, H.J. Gils, J. Kiener, H. Rebel, S. Zagromski, C. Samanta: Projectile break-up reactions of 156 MeV ^6Li at small relative momenta. Beitrag (Poster) auf der 51. Frühjahrstagung „Kernphysik“ in Groningen, Holland (23.–27. March 1987), **Verh. DPG 6/22 (4/1987) PA-1**
- 10.*** H. Jelitto, H.J. Gils, H. Rebel, S. Zagromski: Measurement of Light Particle Emission at Very Forward Angles in ^6Li -Induced Nuclear Reactions at 26 MeV per Nucleon. **Rev. Roum. Phys.** **32** Nr. 5–6 (1987) 629–635, [KIT-Library](#)

- 11.* H. Jelitto: Experimentelle Untersuchungen des Aufbruchs von 156 MeV ${}^6\text{Li}$ -Ionen unter extremen Vorwärtswinkeln mit dem Karlsruher Magnetspektrographen „Little John“. Dissertation (Univ. Heidelberg), Kernforschungszentrum Karlsruhe, Report [KfK-4259](#) (Mai 1987)
12. H. Jelitto, V. Corcalciuc, H.J. Gils, N. Heide, J. Kiener, H. Rebel, S. Zagromski: Break-up reactions of ${}^{6,7}\text{Li}$ -projectiles – Merits and restrictions of the extended Serber model. Beitrag (Poster) in „Annual Meeting of the Central Institute of Physics (Progress in Physics)“ in Bucharest (22.–24. Oct. 1987)
13. Contributions in 'Annual Report on Nuclear Physics Activities, July 1, 1986 – June 30, 1987', Kernforschungszentrum Karlsruhe, [KfK-4405](#) (Febr. 1988) 37, 43, 49
14. J. Kiener, H.J. Gils, H. Rebel, G. Baur, G. Gantenbein, N. Heide, H. Jelitto, J. Wentz, S. Zagromski: Looking for Coulomb break-up of 156 MeV Li-projectiles. Gruppenbericht auf der 52. Frühjahrstagung Physik in Berlin „Kern- und Mittelenergiephysik“ (21.–25. March 1988), **Verh. DPG 6/23 (6/1988) D 7.5** (S. 128)
15. T. Kozik, J. Buschmann, K. Grotowski, J. Brzychczyk, H.J. Gils, N. Heide, H. Jelitto, J. Kiener, S. Micek, H. Rebel, Z. Sosin, S. Zagromski, A. J. Cole: Intermediate mass fragment emission in ${}^6\text{Li}$ induced nuclear reactions at $E/A = 26$ MeV. Beitrag (Poster), s. o., **Verh. DPG 6/23 (6/1988) PC 38** (p. 212)
16. H.J. Gils, J. Kiener, H. Jelitto, H. Rebel, S. Zagromski, G. Baur: Search for non-resonant Coulomb break-up of ${}^6\text{Li}$ at $E_{\text{Li}} = 156$ MeV. Beitrag in „Third International Conference on Nucleus Nucleus Collisions“, Saint Malo, Frankreich (June 1988)
17. J. Kiener, H.J. Gils, H. Rebel, G. Baur, G. Gantenbein, N. Heide, H. Jelitto, J. Wentz, S. Zagromski: Search for non-resonant Coulomb break-up of ${}^6\text{Li}$. Konferenzbeitrag, 20th Summer School on Nuclear Structure Studies by Means of Nuclear Reactions, Mikolajki, Poland (2.–11. Sept. 1988) – Proceeding of the 20th Mikolajki Summer School on Nuclear Physics, Poland (1988) p. 124
- 18.* H. Jelitto, J. Buschmann, V. Corcalciuc, H.J. Gils, N. Heide, J. Kiener, H. Rebel, C. Samanta, S. Zagromski: Inclusive Measurements of the Break-up of 156 MeV ${}^6\text{Li}$ -Ions at Extreme Forward Angles and the Quasi Free Break-up Model. Kernforschungszentrum Karlsruhe, Report [KfK-4480](#) (Nov. 1988)
- 19.* H. Jelitto, J. Buschmann, V. Corcalciuc, H.J. Gils, N. Heide, J. Kiener, H. Rebel, C. Samanta, S. Zagromski: Inclusive Measurements of the Break-up of 156 MeV ${}^6\text{Li}$ -Ions at Extreme Forward Angles. **Z. Phys. A332/3** (1989) 317–330, DOI: [10.1007/BF01295462](#) (slightly abbreviated version of KfK-4480)
20. Contributions in 'Annual Report on Nuclear Physics Activities, July 1, 1987 – June 30, 1988', Kernforschungszentrum Karlsruhe, [KfK-4508](#) (Febr. 1989) 45, 46, 53, 56, 59, 60, 124
21. H. Rebel, G. Baur, H.J. Gils, J. Kiener, D.K. Srivastava, N. Heide, H. Jelitto, S. Zagromski: Coulomb-Aufbruch nuklearer Projectile als Informationsquelle von astrophysikalischem Interesse. Gruppenbericht auf der 53. Physikertagung und Frühjahrstagung in Bonn „Physik der Hadronen und Kerne“ sowie weitere Fachgremien (13.–17. March 1989), **Verh. DPG 6/24 (3/1989) KF 1.1**
22. J. Wentz, H. Rebel, V. Corcalciuc, H.J. Gils, N. Heide, H. Jelitto, J. Kiener, I.M. Brancus: Particle emission from collisions of 156 MeV ${}^6\text{Li}$ -ions with ${}^{\text{nat}}\text{Ag}$. Beitrag (Poster) s. o., **Verh. DPG 6/24 (3/1989) PA 2**; Tagung "Progress in Fisica", Oradea, R, 5.–7. Oktober 1989
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- 25.*** N. Heide, H. Rebel, V. Corcalciuc, H.J. Gils, H. Jelitto, J. Kiener, J. Wentz, S. Zagromski, D.K. Srivastava: Elastic break-up of 156 MeV ^6Li projectiles with large asymptotic relative momenta of the fragments. Kernforschungszentrum Karlsruhe, Report **KfK-4564** (Mai 1989), (corresponds to the following article)
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- 29.*** J. Kiener, H.J. Gils, H. Rebel, S. Zagromski, G. Gsottschneider, N. Heide, H. Jelitto, J. Wentz, G. Baur: Measurements of the Coulomb dissociation cross section of 156 MeV ^6Li projectiles at extremely low relative fragment energies of astrophysical interest. Kernforschungszentrum Karlsruhe, Report **KfK-4870**, (April 1991) (corresponds to the article in Phys. Rev. C 44/5)
- 30.** Contribution in 'Annual Report on Nuclear Physics Activities, July. 1, 1989 – Dec. 31, 1990', Kernforschungszentrum Karlsruhe, **KfK-4875** (Mai 1991) 52
- 31.*** J. Kiener, H.J. Gils, H. Rebel, S. Zagromski, G. Gsottschneider, N. Heide, H. Jelitto, J. Wentz, G. Baur: Measurements of the Coulomb dissociation cross section of 156 MeV ^6Li projectiles at extremely low relative fragment energies of astrophysical interest. Physical Review C, Nuclear Physics, **Phys. Rev. C 44/5** (1991) 2195–2208, DOI: [10.1103/PhysRevC.44.2195](https://doi.org/10.1103/PhysRevC.44.2195)
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- 33.** Contributions in 'Annual Report on Nuclear Physics Activities, Jan. 1, 1991 – Dec. 31, 1991', Kernforschungszentrum Karlsruhe, **KfK-5027** (Mai 1992) 75, 76
- 34.** H. Jelitto: Die großen Pyramiden von Giza: Geometrie und physikalische Aspekte. Seminarvortrag (60 Min.), Institutseminar von IK I, IK III und IEKP, Kernforschungszentrum Karlsruhe (3. Mai 1994) (not public)
- 35.*** H. Jelitto: Geometrie und Anordnung der Großen Pyramiden von Giza – Teil I: Die Cheops-Pyramide. Grenzgebiete der Wissenschaft, Resch Verlag, Innsbruck, **GW 44/1** (1995) 3–28, [Artikel RG](#)
- 36.*** H. Jelitto: Geometrie und Anordnung der Großen Pyramiden von Giza – Teil II: Chefren- und Mykerinos-Pyramide sowie Gesamtbild. Grenzgebiete der Wissenschaft, Resch Verlag, Innsbruck, **GW 44/2** (1995) 99–120, [Artikel RG](#)
- 37.*** H. Jelitto: Pyramiden und Planeten – Ein vermeintlicher Meßfehler und ein neues Gesamtbild der Pyramiden von Giza. Wissenschaft & Technik Verlag, Berlin, Buch, gebunden, 428 Seiten (1999) ISBN 978-3-89685-507-7, [Info](#)
- 38.** H. Jelitto: Die Pyramiden von Gizeh in einem neuen Gesamtbild. Öffentlicher Vortrag (ca. 60 Min.) Fortbildungs-Kolloquium, DESY-Hörsaal, Hamburg (1. March 2000)

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- 40.*** H. Jelitto: Gespiegelte Planeten – Die Anordnung der Pyramiden von Gizeh. Kosmos Erde Mensch – Spezial 6, **Magazin 2000plus Nr. 156**, Argo-Verlag, Marktoberdorf (Dec. 2000) 12–22, DOI: [10.15480/882.347](https://doi.org/10.15480/882.347)
- 41.** H. Jelitto: Die Pyramiden von Gizeh: Neue Ansätze und Entdeckungen ergeben ein neues Gesamtbild. Öffentlicher Vortrag (ca. 60 Min.), Technische Universität Hamburg-Harburg, Audimax II (31. Jan. 2001). Ein kurzer Bericht und eine Zusammenfassung darüber erschien in der Semester-Zeitschrift der TUHH: **Spectrum (SS 2001)**, S. 9
- 42.** H. Jelitto: Die Spur zu einer unentdeckten Kammer in der Cheopspyramide. Öffentlicher Vortrag (ca. 60 Min.) Forschungsgesellschaft Hamburger Forum e. V., Hamburg (8. März 2002)
- 43.*** H. Jelitto: Das Rätsel der Pyramiden und des menschlichen Verstandes. New Era Verlag, **Free Mind Magazin 02 2003** (Mai 2003) 22–25
- 44.** H. Jelitto, D. Schmidt, T. Scholz, F. Felten, G. A. Schneider: Mechanical, Electrical, and Piezoelectric Energy Release Rate Determined by Controlled Crack Growth in Four-Point-Bending. Postersession, Gordon Research Conference 2003, Solid State Studies in Ceramics, Colby-Sawyer College, New London, New Hamp., USA, Poster won 3. Prize (10.–15. Aug. 2003)
- 45.** H. Kessler, H. Balke, H. Jelitto, G. A. Schneider: Fracture of piezoelectric PZT under combined electromechanical loading. Oral presentation, **GAMM 2004**, 75. Jahrestagung der Gesellschaft für Angewandte Mathematik und Mechanik e.V. 2004, Technische Universität Dresden (21.–27. March 2004)
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- 47.** H. Jelitto, F. Felten, C. Häusler, H. Kessler, H. Balke, G. A. Schneider: Measurement of energy release rates for cracks in PZT under electro-mechanical loads. Oral presentation, **Electroceramics 2004**, Cherbourg, Frankreich (31. May – 3. June 2004)
- 48.*** H. Jelitto, G. A. Schneider, F. Felten, K.-D. Schmidt, T. Scholz, M. Swain (Inventors): Invention registration at the TUHH; „Vorrichtung zur Compliance-Messung“, entry: 23. April 2004, reference number **TU 045** (TUHH-internal, unpublished)
- 49.** H. Jelitto: Die Pyramiden von Gizeh – ein Rätsel im Licht neuer Entdeckungen. Vortrag (45 Min.), Heisenberg-Tag „Aus Wissenschaft und Forschung“, Heisenberg-Gymnasium, Hamburg-Harburg (10. Sept. 2004)
- 50.** U. Köpke, B. Franke, G. A. Schneider, H. Jelitto: R-Curve Measurement Instrumentation – Development and Application of a Novel Test System for Advanced Ceramics. Postersession, **FAC 2004: Fractography of Advanced Ceramics**, Stara Lesna, Slowakei (3.–6. Oct. 2004).
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- 53.*** C. Häusler, H. Jelitto, H. Balke, G. A. Schneider: Zur Bestimmung bruchmechanischer Kennwerte am Piezo-Aktor. **DVM-Bericht 237** der 37. Tagung des DVM-Arbeitskreises Bruchvorgänge, TU Hamburg-Harburg, (22. und 23. Febr. 2005) 355–364, [Artikel RG](#)
- 54.** H. Jelitto, F. Felten, G. A. Schneider: Experimenteller Aufbau zur Messung der Energiefreisetzungsrates für Risswachstum in PZT unter elektro-mechanischer Last. Vortrag, 37. Tagung des **DVM**-Arbeitskreises Bruchvorgänge – Technische Sicherheit, Zuverlässigkeit und Lebensdauer, TU Hamburg-Harburg (22. und 23. Febr. 2005)
- 55.*** H. Jelitto, F. Felten, G. A. Schneider: Experimenteller Aufbau zur Messung der Energiefreisetzungsrates für Risswachstum in PZT unter elektro-mechanischer Last. **DVM-Bericht 237** der 37. Tagung des DVM-Arbeitskreises Bruchvorgänge, TU Hamburg-Harburg (22. und 23. Febr. 2005) 365–372, [Artikel RG](#)
- 56.*** H. Jelitto, F. Felten, C. Häusler, H. Kessler, H. Balke, G. A. Schneider: Measurement of Energy Release Rates for Cracks in PZT under Electromechanical Loads. (Proceedings Electroceramics 2004) **J. Eur. Ceram. Soc.** **25/12** (2005) 2817–2820, DOI: [10.1016/j.jeurceramsoc.2005.03.147](https://doi.org/10.1016/j.jeurceramsoc.2005.03.147)
- 57.** H. Jelitto, C. Häusler, P. Neumeister, H. Balke, G. A. Schneider: Controlled crack growth in metal piezo ceramic interfaces under electromechanical loading. Oral presentation at the XIV. International Materials Research Congress, Cancun, Mexico (21.–25. Aug. 2005)
- 58.** J. Kuebler, G. Blugan, T. Graule, G. A. Schneider, H. Jelitto, R. Dohedoe: Structural Micro-layered ceramics with surfaces under tension and compression with increasing apparent fracture toughness. Invited oral presentation, **IWLGM-2**, The Second International Workshop on Layered and Graded Materials, Chengdu, Sichuan Province, China (23.–26. Oct. 2005)
- 59.*** H. Jelitto: Große Pyramide – Der asymmetrische Kristall. Alte Kulturen Spezial 27, Pyramiden, **Magazin 2000plus Nr. 221**, Argo-Verlag, Marktoberdorf (Jan. 2006) 6–16, DOI: [10.15480/882.293](https://doi.org/10.15480/882.293)
- 60.** R. S. Dohedoe, D. Keble, N. Moore, M. H. Lewis, I. A. Gee, R. Vann, J. Kuebler, G. Blugan, H. Jelitto, G. A. Schneider: Designed Ceramic laminates with improved properties and predictable fracture behaviour. Oral presentation, **Materials Congress 2006**, London, UK (5.–7. April 2006)
- 61.** H. Jelitto, C. Häusler, P. Neumeister, H. Balke, G. A. Schneider: Stable interfacial crack growth in multilayer actuators under electromechanical loading. Oral presentation, **IWPMA 2006**, 3rd International Workshop on Piezoelectric Materials and Applications in Actuators, Anadolu University, Eskisehir, Türkei (18.–21. June 2006)
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- 63.** H. Jelitto: Cheops-Pyramide unter der Lupe – sowie Chefren- und Mykerinos-Pyramide, Vortrag (45 Min.), **WMF 2006, 3. World Mystery Forum**, Mystery Park, Interlaken, Schweiz (11.–12. Nov. 2006)
- 64.*** Interview mit H. Jelitto, geführt von Christoph Siegert und Matthias Raaflaub: Mysteriöse Pyramiden – Erbauer unbekannt. **SPECTRUM** – Le journal des étudiant-e-s de l'Université de Fribourg – Die Zeitung der Studierenden der Universität Freiburg, **49^{ème} année – No 7** (Dec. 2006) 14–15, [Artikel](#)

- 65.** G. A. Schneider, F. Hackbarth, H. Jelitto: Automatisierte R-Kurven-Messung. Arbeitskreis „Lebensdauer und Zuverlässigkeit struktur- und elektrokeramischer Bauteile“, Siemens AG, München, 27. Febr. 2007
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- 67.*** P. Grete: Ewiges Rätsel Ägypten: Interview mit WMF-Referent Dr. Hans Jelitto – Die verborgene Zahlenwelt der Pyramiden. **Sagenhafte Zeiten Nr. 2/2007**, 9. Jahrgang, hrsg. von der Forschungsgesellschaft für Archäologie, Astronautik und Seti (AAS), S. 12–15, [Artikel](#)
- 68.** H. Jelitto, F. Gehrig, G. A. Schneider, C. Häusler, P. Neumeister, H. Balke: Stable crack growth in piezoelectric ceramics and PZT/electrode interfaces. Oral presentation (30 Min.), First Seminar on the Mechanics of Multifunctional Materials, Physikzentrum Bad Honnef (7.–10. Mai 2007)
- 69.*** H. Jelitto, F. Gehrig, G. A. Schneider, C. Häusler, P. Neumeister, H. Balke: Stable crack growth in piezoelectric ceramics and PZT/electrode interfaces. Proceedings of the First Seminar on The Mechanics of Multifunctional Materials, Bericht **Nr. 5**, Universität Duisburg-Essen, Ingenieurwissenschaften, Abt. Bauwissenschaften, Institut für Mechanik, Eds.: J. Schröder, D. Lupascu, D. Balzani (7.–10. May 2007) 56–59
- 70.*** H. Jelitto: Neueste Erkenntnisse aus der Pyramidenforschung: Unerklärliches erklärbar gemacht? Vortrag (60 Min.), 1. **ÖVR – Kongress** „Raumenergie & physikalisch nicht erklärbare Phänomene“, Österreichische Vereinigung für Raumenergie, Naturhistorisches Museum, Burgring 7, Wien (22.–23. Juni 2007), lecture available on congress-DVD at ÖVR.
- 71.*** H. Jelitto: Neueste Erkenntnisse aus der Pyramidenforschung: Unerklärliches erklärbar gemacht? Proceeding des 1. ÖVR – Kongress, „Raumenergie & physikalisch nicht erklärbare Phänomene“, **ÖVR-Kongressband** (2007) 6–7, DOI: [10.13140/RG.2.2.24444.44163](https://doi.org/10.13140/RG.2.2.24444.44163)
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- 73.*** H. Jelitto, F. Felten, G. A. Schneider, C. Häusler, H. Balke: Fracture in piezoelectric ceramics and PZT/electrode interfaces. Experimental Analysis of Nano and Engineering Materials and Structures, Proceedings of the 13th International Conference on Experimental Mechanics, **ICEM13**, Alexandroupolis, Greece, Springer Verlag, AA Dordrecht, The Netherlands, Ed. E. E. Gdoutos (1.–6. July 2007) 577–578, DOI: [10.1007/978-1-4020-6239-1_286](https://doi.org/10.1007/978-1-4020-6239-1_286)
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