

ИМЕ И ПРЕЗИМЕ: Часлав Брукнер, Универзитет у Бечу, Физички факултет, редовни професор

**РАДОВИ У МЕЂУНАРОДНИМ
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<p>РАДОВИ САОПШТЕНИ НА МЕЂУН. СКУПОВИМА</p>	<ol style="list-style-type: none"> 1. J. Kofler and Č. Brukner, A Coarse-grained Schrödinger Cat, in Quantum ommunication and Security, M. Zukowski, S. Kilin, J. Kowalik (Eds.) Proceedings of the NATO Advanced Research Workshop on Quantum Communication and Security, Gdansk, Poland, 10-13 September 2006, p. 63-68, IOS Press (ISBN 978-1-58603-749-9), Netherlands, (2007) 2. M. Bourennane, Ch. Schmid, P. Trojek, Ch. Kurtsiefer, Č. Brukner, M. Zukowski and H. Weinfurter, Experimental Single Qubit Quantum Multiparty Communication, in Quantum Communication and Security, M. Zukowski, S. Kilin, J. Kowalik (Eds.) Proceedings of the NATO Advanced Research Workshop on Quantum Communication and Security, Gdansk, Poland, 10-13 September 2006, p. 22-30, IOS Press (ISBN 978-1-58603-749-9), Netherlands, (2007) 3. S. Taylor, S. Cheung, Č. Brukner and V. Vedral, Entanglement in Time and Temporal Communication Complexity, in the "Proceeding for The Seventh International Conference on Quantum Communication Measurement and Computing" (QCMC 2004). 4. R. Kaltenbaek, M. Aspelmeyer, T. Jennewein, Č. Brukner, M. Pfennigbauer, W. R. Leeb and A. Zeilinger, Proof-of-Concept Experiments for Quantum Physics in Space, Proceedings of SPIE Vol. 5161 (2004) Quantum Communications and Quantum Imaging. 5. J. Rehacek, Z. Hradil, J. Fiurasek, & Č. Brukner, Optimum Teleportation with Imperfect Bell-State Measurements, Proceedings of SPIE Vol. 888, 16-22 (July 2002).

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<p>РЕЗУЛТАТИ У РАЗВОЈУ ОБРАЗОВНО-НАУЧНЕ ОБЛАСТИ</p>	<p>Brukner predaje redovno na osnovnim i postdiplomskim studijama kao i na letnjim školama iz kvantne fizike. U okviru osnovnih studija držao je predavanja iz predmeta “Teoretska Klasična Mehanika” (2012–2016, 2018–2020) i “Kvantna Mehanika” (2014–2015, 2017–2018, 2021), „Advanced Quantum Mechanics“ (2020) na Univerzitetu u Beču, kao i „Teorijska kvatna optika” na Imperial College London u Velikoj Britaniji. Drži sledeće kurseve i predavanja na nivou postdiplomskih studija: “Modern Foundations of Quantum Mechanics” (2005–do sada), “Quantum Information” (2005–do sada) na Univerzitetima u Beču i Beogradu, “Quantum Causality” (2017) na VI Quantum Information School Paraty, Brazil; “Gravitational quantum physics” (2014) na National Laboratory for Physical, University of Science and Technology of China, Hefei University. Objavio je članke u 7 knjiga o kvantnoj informaciji i osnovama kvantne mehanike, od kojih izdvajamo: Č. Brukner, <i>On the quantum measurement problem</i>, in “Quantum [Un]speakables II”, Eds. R. Bertlmann and A. Zeilinger (The Frontiers Collection, Springer, 2016) i Č. Brukner and M. Zukowski, Bell's Inequalities: Foundations and Quantum Communication, in “Handbook of Natural Computing”, Eds. G. Rozenberg, T.H.W. Baeck, J.N. Kok (Springer, 2011). Zajedno sa vrhunskim naucnicima (medju njima su Jeffrey Bub, Arthur Fine, Anthony Leggett – Nobelova nagrada za fiziku 2003 god., David Mermin, Lee Smolin, Anton Zeilinger i Wojciech Zurek) mu je objavljen intervju u knjizi „Elegance and Enigma: The Quantum Interviews“ (Springer 2011).</p> <p>Do sada je Brukner bio ili jeste mentor 20-tak PhD i 15-tak Master studenata, kao i velikog broja projekata studenata osnovnih studija. Njegovi studenti su cesto nagrađivani za njihove PhD i Mater teze (dobitnici Hans-Thirring nagrade, nagrade Wilhelm and Else Heraeus Foundation, Loschmidt nagrade Austrian Chemical</p>

		<p>Physical Society, Doc Award grada Beca, finalisti DPG AMOP Doctorske nagrade etc.) i nakon promocije dobijaju ponude na eminentnim istraživačkim centrima (npr. Harvard University, Perimeter University, University of Oxford, MPQ Munich, University of Queensland etc.) ili dobijaju prestižne post-doc stipendije kao sto je Marie-Curie stipendija. PhD teze dva njegova studenta su nominovana od strane Nemačkog Fizičkog Društva za štampu u izdanju Springer-a. Pet njegovih bivših studenata drže univerzitetske pozicije.</p> <p>Redovan je clan ispitnih komisija na master i doktorskim studijama, clan je Doktoratsbeirat für das Dissertationsbereich Physik na Univerzitetu u Becu od 2009.</p>
ЦИТИРАНОСТ НАУЧНИХ РЕЗУЛТАТА		<p>Po indeksnoj bazi SCOUNPUS 15.08.2021. godine članci Časlava Bruknera su citirani 7710 puta (13600 puta Google scholar), od čega je 6730 heterocitata, uz h-indeks 45. Članci objavljeni od 2016. godine su citirani 734 (572 heterocitata).</p>
МЕЋУНАРОДНА РЕПУТАЦИЈА	ГОСТ УРЕДНИК МЕЋУНАРОДНОГ ЧАСОПИСА	<p>Brukner je bio editor za Focus on Gravitational Quantum Physics, New J. Phys. (2016), za specijalno izdanje Found. Phys. Festschrift to Daniel Greenberger and Helmut Rauch, kao i izdanje "Qubits and Spacetime" za Frontiers of Physics (2020)</p>
	ПРЕДСЕДАВАО МЕЋУНАРОДНИМ НАУЧНИМ КОНФЕРЕНЦИЈАМА	<p>Organizator je 7 velikih internacionalnih konferencija, osnivač i inicijator nagrade "Paul Ehrenfest Best Paper Award for Quantum Foundations, koja se od 2016 dodeljuje za najveća dostignuća u oblasti osnova kvantne mehanike u poslednjih pet godina, kao i "2nd Vienna Symposium on the Foundations of Modern Physics" Jun 2009, Beč.</p>
	ЧЛАНСТВО У УРЕЂИВАЧКИМ ОДБОРИМА МЕЋУНАРОДНИХ НАУЧНИХ ЧАСОПИСА	<p>Od 2009 do 2012 bio je član John Templeton Foundation's Eurasian Board of Advisors, a od 2008 do 2015 član Editorial Board casopisa New Journal of Physics, i Physics Research International (2008 – 2011).</p> <p>Sluzio je kao član European council u društvu "International Society of Relativistic Quantum Information" do 2015, a od 2019 do 2022 je councilor istog društva za Evropu, Srednji Istok i Afriku.</p>
	АУТОР МЕЋУНАРОДНЕ МОНОГРАФИЈЕ	<ol style="list-style-type: none"> 1. Č. Brukner, On the quantum measurement problem, in "Quantum [Un]speakables II", Eds. R. Bertlmann and A. Zeilinger (The Frontiers

	<p>Collection, Springer, 2017). Preprint at arXiv:1507.05255</p> <ol style="list-style-type: none"> 2. B. Dakic and Č. Brukner, The classical limit of a physical theory and the dimensionality of space, in "Quantum Theory: Informational Foundations and Foils", Eds. G. Chiribella, and R. Spekkens. (Fundamental Theories of Physics, Volume 181, Dordrecht: Springer Netherlands, S. 249-282 34 S.) Preprint at arXiv:1307.3984. 3. Č. Brukner, Elegance and Enigma: The Quantum Interviews (The Frontiers Collection), Editor Maximillian Schlosshauer (Springer, 2011) 4. B. Dakic and Č. Brukner, Quantum Theory and Beyond: Is Entanglement Special?, in "Deep beauty", Ed. Hans Halvorson (Cambridge Press, 2011). Preprint at arXiv:0911.0695 5. Č. Brukner and M. Zukowski, Bell's Inequalities: Foundations and Quantum Communication, in "Handbook of Natural Computing", Eds. G. Rozenberg, T.H.W. Baeck, J.N. Kok (Springer, 2011). Preprint at arXiv:0909.2611. 6. Č. Brukner and A. Zeilinger, Quantum Physics as a Science of Information, in Quo Vadis Quantum Mechanics?, Eds. A. Elitzur, S. Dolev, N. Kolenda, (Springer, 2005). 7. Č. Brukner and A. Zeilinger, Information and Fundamental Elements of the Structure of Quantum Theory, in "Time, Quantum, Information", Eds. L. Castell and O. Ischebeck (Springer, 2003). Preprint at arXiv:quant-ph/0212084. 8. M. Aspelmeyer, Č. Brukner and A. Zeilinger, Entangled Photons and Quantum Communication, in Quantum Entanglement and Information Processing, Eds. D. Esteve, J.-M. Raimans and J. Dalibard (Elsevier Science, 335-352, 2004).
НАПОМЕНА	<p>Internationalne stanice Bruknerove karijere obuhvataju Imperial College London, gde provodi 2003 kao Marie Curie stipendista, Tsinghua University u Pekingu kao „Chair Professor“ u periodu od 2005 do 2008, Univerzitet u Beogradu gde je gostujući profesor od 2008, i konačno, Internacionalni Institut za Fiziku u Natalu,</p>

Brazil, gde je „Distinguished Visiting Full Professorship“ od 2017 god. U periodu od 2013 do 2019 biva izvršni direktor Instituta za Kvantnu Optiku i Kvantnu Informaciju u Beču, a od 2020 postaje njegov naučni direktor.

Sa svojim kolegama (medju njima i Robert M. Wald sa Enrico Fermi Instituta) dobija 2019 god. prvu nagradu *Gravity Research Foundation-a* (<https://www.gravityresearchfoundation.org/year?rq=brukner>) za najbolje napisani esej o gravitaciji. (U prošlosti su ovi nagradu dobili pet dobitnika Nobelove nagrade). Godine 2015 dobija nagradu „Marko Jarić“ „za doprinos konceptualnom i teorijskom zasnivanju kvantne mehanike, odnosno za rad na kvantnoj nelokalnosti i problemu kauzalnosti u kvantnoj mehanici, kao i primenu kvantnih korelacija u kvantnoj informatici.“

Njegovi rezultati su publikovani u preko 135 per review radova, izmedju ostalih 28 Physical Review Letters-a, 2 Nature-a, 7 Nature Physics-a i 7 Nature Communications-a, 2 PNAS-a a ima i nekoliko revijalnih radova. Njegov skorasnji rad „Bell’s Theorem for Temporal Order“ je medju 25 najcitanijih radova u Nature Communication u svim disciplinama u 2019 godini. Brukner je odrzao vise od 190 predavanja na prestiznim univerzitetima i naucnim institutima ukljucujuci Princeton University, ETH Zürich, Berlin-Brandenburgischen Akademie der Wissenschaften und der Deutschen Akademie der Naturforscher Leopoldina, Perimeter Institute, Max-Planck Institut für Quantenoptik u Garching-u i Oxford University. Njegovi radovi su izabrani više puta kao „highlight“ i o njima se pisalo u medijima i naučno-popularnim časopisima. Izdvajamo da je *Nature* tri puta izabrao njegove radove za pregled u okviru „News & Views“, dva puta je *Physics Today* izvestavao o njegovim radovima kao „Top Stories“, kao i *Scientific American*. Čak i je čuveni časopis *Economist* izvestio o rezultatima njegovog istraživanja („[Time may be fuzzy. If so, the idea of causality may be in trouble](#)“, 8. jun, 2017).

Brukner je recezent za veliki broj casopisa, ukljucujuci Nature Physics, Nature Communication i Physical Review Letters, kao i naucnih fondacija od kojih izdvajamo European Research Council, Research Council of Canada, Netherland National Research Council (NWO), Czech Science Foundation (GACR), Israel Science Foundation (ISF), Qatar National Research Fund, Grants of John Templeton Foundation, Killam Research Fellowships (Canada) itd.

