

## Press Releases (April 2021—March 2022)

RNC		
Apr. 16	New precise spectroscopy of the hyperfine structure in muonium with a high-intensity pulsed muon beam	K. Ishida, M. Iwasaki, Meson Science Laboratory
Apr. 26	Proton- <sup>3</sup> He elastic scattering at intermediate energies	H. Sakai, RNC
May. 11	Measurement of neutron rich high dense matter pressure —Reproducing the inside of neutron star matter in a laboratory—	T. Isobe, M. Nishimura, H. Sakurai, H. Otsu, H. Baba, Radioactive Isotope Physics Laboratory, SAMURAI Team, Computing and Network Team
May. 19	Discovery of a charge symmetry breaking —Large difference in the shape between Kr-70 and Se-70—	P. Doornenbal, H. Sakurai, Radioactive Isotope Physics Laboratory
Aug. 30	Most charming dibaryon, "Charmed di-Omega" —Theoretical calculation using supercomputers predicts a new hexaquark state—	H. Tong, Y. Lyu, T. Doi, Quantum Hadron Physics Laboratory
Sep. 1	First high-precision direct determination of the atomic mass of a superheavy nuclide evinces a new means to unambiguously determine atomic numbers	K. Morimoto, Superheavy Element Device Development Team
Oct. 15	Measurement of gluon's motion inside the proton via "direct photon" —Data reveal that the dynamical motion of gluons is not very large—	Y. Akiba, Y. Goto, S. Ralf, I. Nakagawa, Experimental Group, RIKEN BNL Research Center
Nov. 29	難治性甲状腺がんに対する医師主導治験を開始 —アスタチンを用いた新しい標的アルファ線治療—	H. Haba, Nuclear Chemistry Research Team, RI Application Research Group
Dec. 8	Succeeded in creating a new breed of Satsuma mandarin orange	T. Abe, Ion Beam Breeding Team, Beam Mutagenesis Group
Feb. 28	Negative string tension of higher-charge Schwinger model via digital quantum simulation	E. Itou, Strangeness Nuclear Physics Laboratory
Mar. 28	Measurements of strong-interaction effects in kaonic-helium isotopes at sub-eV precision with X-ray microcalorimeters	F. Sakuma, Meson Science Laboratory
KEK		
Aug. 31	超重元素の初めての精密質量測定に成功 —新元素の新しい原子番号決定法の証明— <a href="https://www.kek.jp/ja/press/202109010000/">https://www.kek.jp/ja/press/202109010000/</a>	P. Schury, M. Wada