

Publications and dissertations in 2016

Matter and universe – 610

200 publications listed in Web of Science or SCOPUS

Y. Abe and K. Fukushima.

Analytic studies of the complex Langevin equation with a Gaussian ansatz and multiple solutions in the unstable region.

Physical review / D, 94(9):094506.

doi: 10.1103/PhysRevD.94.094506.

M. Ablikim et al.

Improved measurement of the absolute branching fraction of

$D^+ \rightarrow \bar{K}^0 \mu^+ \nu_\mu$ **$D \rightarrow K^- 0 \mu + \nu \mu$.**

The European physical journal / C, 76(7):369.

doi: 10.1140/epjc/s10052-016-4198-2.

M. Ablikim et al.

Measurement of azimuthal asymmetries in inclusive charged dipion production in e^+e^- annihilations at $\sqrt{s} = 3.65$ GeV.

Physical review letters, 116(4):042001.

doi: 10.1103/PhysRevLett.116.042001.

M. Ablikim et al.

Measurement of Singly Cabibbo Suppressed Decays $\Lambda c^+ \rightarrow p \pi^+ \pi^-$ and $\Lambda c^+ \rightarrow p K^+ K^-$.

Physical review letters, 117(23):232002.

doi: 10.1103/PhysRevLett.117.232002.

M. Ablikim et al.

Measurement of the absolute branching fraction of $D \rightarrow K 0 e + \nu e$ via $K 0 \rightarrow \pi 0 \pi 0$.

Chinese physics / C, 40(11):113001.

doi: 10.1088/1674-1137/40/11/113001.

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Measurement of the $D s^+ \rightarrow \ell + \nu \ell$ branching fractions and the decay constant $f D s^+$.

Physical review / D, 94(7):072004.

doi: 10.1103/PhysRevD.94.072004.

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Measurement of the $e^+e^- \rightarrow \pi^+\pi^-$ cross section between 600 and 900 MeV using initial state radiation.

Physics letters / B, 753:629.

doi: 10.1016/j.physletb.2015.11.043.

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Measurement of the leptonic decay width of J/ψ using initial state radiation.

Physics letters / B, 761:98.

doi: 10.1016/j.physletb.2016.08.011.

M. Ablikim et al.

Measurements of absolute hadronic branching fractions of Λ_c^+ baryon.

Physical review letters, 116(5):052001.

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M. Ablikim et al.

Measurements of the absolute branching fractions for $D s^+ \rightarrow \eta e + \nu e$ and $D s^+ \rightarrow \eta' e + \nu e$.

Physical review / D, 94(11):112003.

doi: 10.1103/PhysRevD.94.112003.

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Observation of an Anomalous Line Shape of the $\eta' \pi^+ \pi^-$ Mass Spectrum near the $p \bar{p}$ Mass Threshold in $J/\psi \rightarrow \gamma \eta' \pi^+ \pi^-$.

Physical review letters, 117(4):042002.

doi: 10.1103/PhysRevLett.117.042002.

M. Ablikim et al.

Observation of $e^+e^- \rightarrow \eta' J/\psi$ at center-of-mass energies between 4.189 and 4.600 GeV.

Physical review / D, 94(3):032009.

doi: 10.1103/PhysRevD.94.032009.

M. Ablikim et al.

Observation of $e^+e^- \rightarrow \omega \chi_{c1,2}$ near $\sqrt{s} = 4.42$ and 4.6 GeV.

Physical review / D, 93(1):011102.

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Observation of $h c$ Radiative Decay $h c \rightarrow \gamma \eta'$ and Evidence for $h c \rightarrow \gamma \eta$.

Physical review letters, 116(25):251802.

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Observation of $J/\psi \rightarrow \gamma \eta \pi 0$.

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Observation of pseudoscalar and tensor resonances in $J/\psi \rightarrow \gamma$.

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Physical review / D, 93(5):052005.
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- M. Ablikim et al.
Study of $D^+ \rightarrow K^- \pi^+ e^+ \nu_e$.
Physical review / D, 94(3):032001.
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- M. Ablikim et al.
Study of $J/\psi \rightarrow p \bar{p}$ at BESIII.
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Study of ψ decays to the $\Xi - \Xi^-$ and $\Sigma(1385) \Sigma^-(1385) \pm$ final states.
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- A. Abuhoza* et al.
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- B. Acharya, C. Ji and L. Platter.
Effective-field-theory analysis of Efimov physics in heteronuclear mixtures of ultracold atomic gases.
Physical review / A, 94(3):032702.
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- J. Adam et al.
Centrality dependence of the nuclear modification factor of charged pions, kaons, and protons in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV.
Physical review / C, C93(3):034913.
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- J. Adam et al.
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Physical review / C, 93(2):024917.
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- J. Adamczewski-Musch* et al.
 Λp interaction studied via femtoscopy in p + Nb reactions at $\sqrt{s_{NN}} = 3.18$ GeV.
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- G. Agakishiev et al.
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- V. Akishina* and I. Kisel*.
Parallel 4-Dimensional Cellular Automaton Track Finder for the CBM Experiment.
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- S. V. Akkelin and Y. M. Sinyukov*.
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Centrality dependence of charged jet production in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV.
The European physical journal / C, C76(5):271.
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1. Strangeness in Quark Matter 2015, Dubna (Russia), 6 Jul 2015 - 11 Jul 2015.

IOP Publ., Bristol, 6th July 2015.

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Correlated event-by-event fluctuations of flow harmonics in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV.

Physical review letters, 117(18):182301.

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Multipion Bose-Einstein correlations in pp, p-Pb, and Pb-Pb collisions at energies available at the CERN Large Hadron Collider.

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B. Lommel (Spokesperson); R. Bär; W. Barth; W. Bayer; P. Braun-Munzinger; A. Bräuning-Demian; R. Fuchs; M. Gorska; F. Herfurth; C. Kausch; O. Kester [until summer 2016]; Y. Leifels (Vice-Spokesperson); V. Lindenstruth; Y. Litvinov; P. Malzacher; F. Maas; D. Ondreka; K. Peters; H. Reich-Sprenger; C. Scheidenberger; C.J. Schmidt; L. Schmitt; M. Schwickert; P. Senger; H. Simon; P. Spiller; J. Stadlmann; T. Stöhlker; J. Stroth; C. Trautmann; U. Weinrich;

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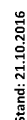
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Experiments performed at the GSI accelerators in 2016

Compiled by D. Severin¹, beam time coordinator 2016

¹GSI, Darmstadt, Germany

In all tables 1 shift represents 8 hours of beam delivered to an experiment including necessary accelerator tuning time.

Exp.	Short title	Spokesperson	Area	Ion	Shifts (8h)	
					main	parasite
U293	Laser spectroscopy of nobelium and lawrencium	Laatiaoui, M.	Y7	Ca	47	57
U300	First chemical study of element 113 behind TASCA	Yakushev, A.	X8	Ca	58	26
U301	LIGHT: First application of ultra-intense proton bunches and investigation of the transport of heavy ions	Roth, M.	Z6	only rf	0	27
U303	Ion energy loss in plasma at the maximum of the stopping power".	Cayzac, W.	Z6	C	0	25
U305	High energy resolution spectroscopy of the target K-shell radiation induced under the action of U-ions	Rosmej, O.	Z6	Au	0	9
U306	Charge state and energy loss of heavy ions after interaction with inductively coupled plasma	Xu, G.	Z6	Au	0	18
U304	Large area continuous position sensitive diamond detectors	Ciobanu, M.	X0	C	0	7
UBIO	Biology Experiments at UNILAC	Friedrich, T.	X0, X6	He, C, O, Au	13	29
UMAT	Material Science Experiments at the UNILAC	Trautmann, C.	X0, M1, M2, M3	C, Ca, Au, U	54	124