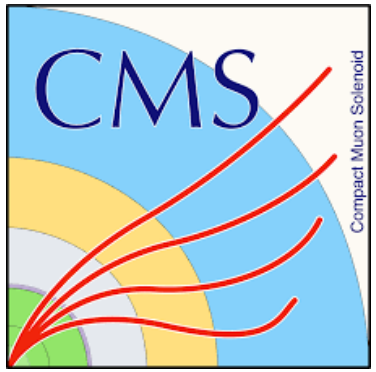


입자핵 물리 분야 대학원 소개

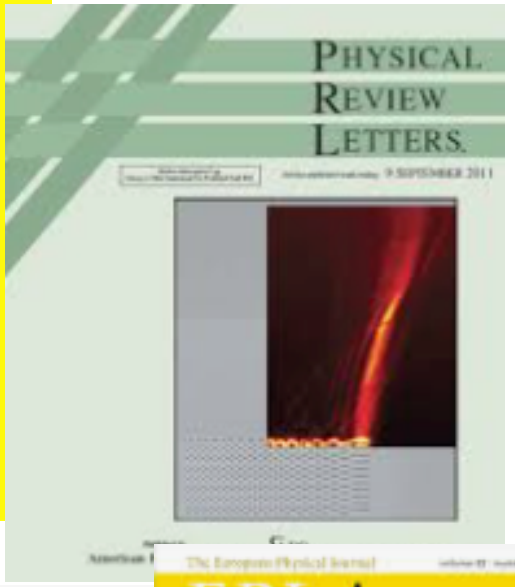
문창성

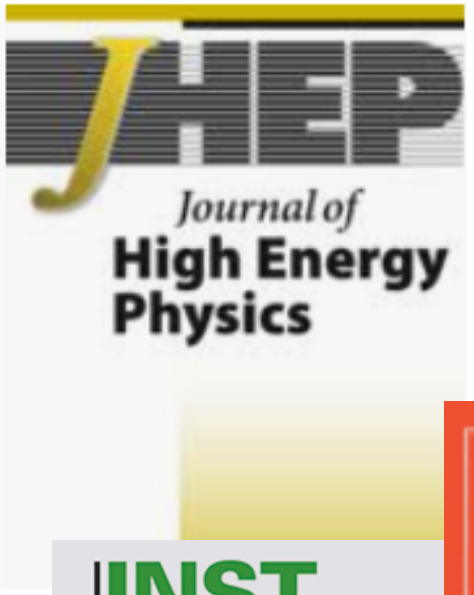
경북대 물리학과

2021년 2월 23일 화요일

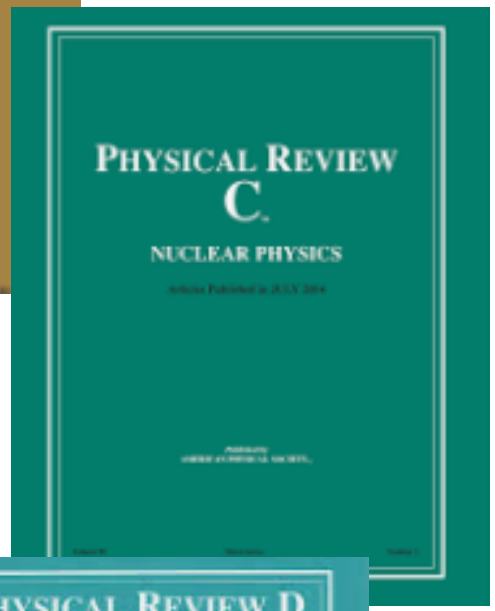
핵입자 물리학 저널들


NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH
Section A: accelerators, spectrometers, detectors and associated equipment
Editors:
William Barletta
(Coordinating Editor)
Daniela Bortoletto
Robert Klanner
Peter Križan
Fulvio Parmigiani
Nobukazu Toge
David Wehe
Founding Editor – Kai Siegbahn
Special Issue Editor – Fabio Sauli


PHYSICAL REVIEW LETTERS

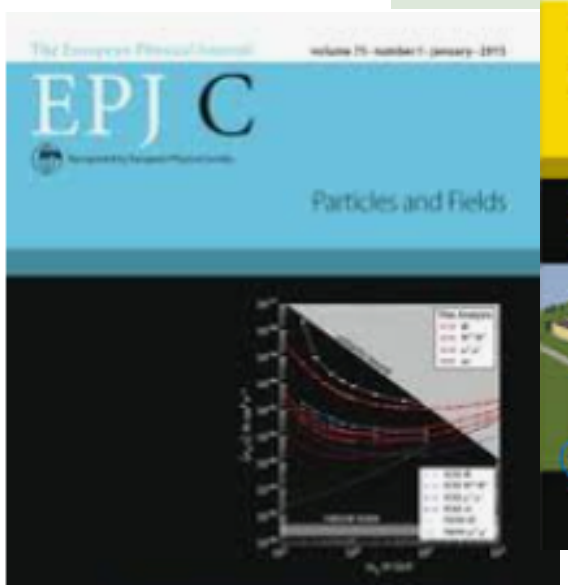

JHEP
Journal of High Energy Physics

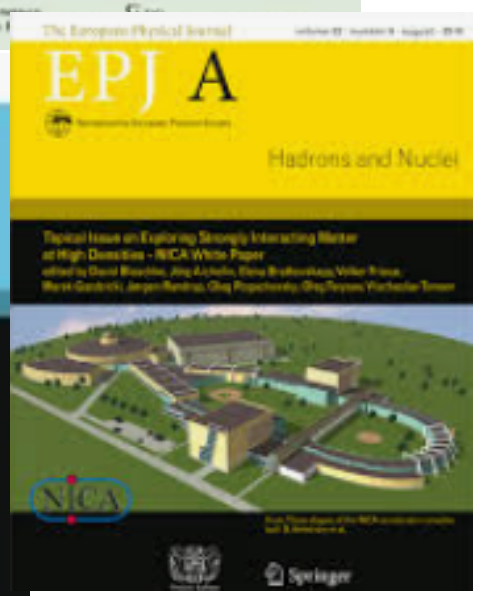

JOURNAL OF THE KOREAN PHYSICAL SOCIETY


PHYSICAL REVIEW C
NUCLEAR PHYSICS


PHYSICS LETTERS B


JINST
Journal of Instrumentation


EPJ C
Particles and Fields


EPJ A
Hadrons and Nuclei
NICA


PHYSICAL REVIEW D
Review of Particle Physics
PDG

물리학 저널들 (Physics, Multidisciplinary)

	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
1	REVIEWS OF MODERN PHYSICS	51,123	45.049	0.05180
2	PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS	28,868	25.809	0.03004
3	Nature Physics	37,113	19.256	0.11534
4	REPORTS ON PROGRESS IN PHYSICS	18,768	17.032	0.03298
5	Physical Review X	16,532	12.577	0.08723
6	PHYSICAL REVIEW LETTERS (PRL)	443,088	8.385	0.51480
7	RIVISTA DEL NUOVO CIMENTO	774	6.875	0.00142
8	Advances in Physics-X	710	6.805	0.00273
9	Quantum	730	5.381	0.00402

	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
79	Moscow University Physics Bulletin	355	0.538	0.00046
80	JOURNAL OF THE KOREAN PHYSICAL SOCIETY (JHEP)	3,559	0.535	0.00334
81	REVISTA MEXICANA DE FISICA	727	0.527	0.00043
82	Journal of Contemporary Physics-Armenian Academy of Sciences	154	0.495	0.00015
83	Bulletin of the Lebedev Physics Institute	247	0.477	0.00045
84	PHYSICS WORLD	340	0.105	0.00015
85	ACTA PHYSICA SLOVACA	274	0.000	0.00008

- Covers resources having a general or interdisciplinary approach to physics.
- Includes theoretical and experimental physics as well as special topics that have relevance to many areas of physics.

핵물리학 저널들 (Physics, Nuclear)

	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
1	PROGRESS IN PARTICLE AND NUCLEAR PHYSICS	3,733	13.421	0.00675
2	Annual Review of Nuclear and Particle Science	2,593	8.778	0.00307
3	NUCLEAR DATA SHEETS	2,173	5.944	0.00427
4	PHYSICS LETTERS B PLB	60,806	4.384	0.06070
5	PHYSICAL REVIEW C PRC	46,440	2.988	0.04310
6	Chinese Physics C	3,197	2.463	0.01087
7	JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS	6,227	2.415	0.01002
8	ATOMIC DATA AND NUCLEAR DATA TABLES	3,018	2.407	0.00161
9	EUROPEAN PHYSICAL JOURNAL A EPJA	5,801	2.176	0.01146
10	NUCLEAR PHYSICS A	15,709	1.695	0.00795
11	Physical Review Accelerators and Beams	1,131	1.623	0.00369
12	Nuclear Science and Techniques	1,061	1.556	0.00293
13	INTERNATIONAL JOURNAL OF MODERN PHYSICS A	5,753	1.486	0.00806
14	MODERN PHYSICS LETTERS A	4,335	1.391	0.00515

- Includes resources on the study of nuclear structure, decay, radioactivity, reactions, and scattering. Resources in this category focus on low-energy physics.

입자물리학 저널들(Physics, Particles & Fields)

	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
1	Living Reviews in Relativity	3,074	35.429	0.00508
2	PROGRESS IN PARTICLE AND NUCLEAR PHYSICS	3,733	13.421	0.00675
3	Annual Review of Nuclear and Particle Science	2,593	8.778	0.00307
4	JOURNAL OF HIGH ENERGY PHYSICS JHEP	92,727	5.875	0.13524
5	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS JCAP	26,184	5.210	0.04863
6	PHYSICAL REVIEW D PRD	179,343	4.833	0.20852
7	EUROPEAN PHYSICAL JOURNAL C EPJC	24,158	4.389	0.05447
8	PHYSICS LETTERS B PLB	60,806	4.384	0.06070
9	CLASSICAL AND QUANTUM GRAVITY	20,049	3.071	0.02764
10	NUCLEAR PHYSICS B	36,006	2.817	0.01665
11	ASTROPARTICLE PHYSICS	3,172	2.610	0.00428
12	Chinese Physics C	3,197	2.463	0.01087
13	JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS	6,227	2.415	0.01002
14	Advances in Theoretical and Mathematical Physics	2,224	2.405	0.00314
15	EUROPEAN PHYSICAL JOURNAL A	5,801	2.176	0.01146

- Includes resources on the study of the structure and properties of elementary particles and resonances and their interactions. Resources in this category focus on high-energy physics.

구글 스칼라의 상위 저작물 순위 (전분야)

	발행처	h5-색인	h5-중앙값
1.	Nature	376	552
2.	The New England Journal of Medicine	365	639
3.	Science	356	526
4.	The Lancet	301	493
5.	IEEE/CVF Conference on Computer Vision and Pattern Recognition	299	509
6.	Advanced Materials	273	369
7.	Nature Communications	273	366
8.	Cell	269	417
9.	Chemical Reviews	267	438
10.	Chemical Society reviews	240	368
11.	Journal of the American Chemical Society	236	324
12.	Angewandte Chemie	229	316
13.	Proceedings of the National Academy of Sciences	228	299
14.	JAMA	220	337
15.	Nucleic Acids Research	219	475
16.	Physical Review Letters PRL	209	288
17.	International Conference on Learning Representations	203	359
18.	Journal of Clinical Oncology	202	300
19.	Renewable and Sustainable Energy Reviews	201	263
20.	Energy & Environmental Science	199	289
21.	Neural Information Processing Systems	198	377

	발행처	h5-색인	h5-중앙값
22.	ACS Nano	193	257
23.	Nature Materials	184	283
24.	The Lancet Oncology	183	300
25.	Nano Letters	183	241
26.	Advanced Energy Materials	181	250
27.	Nature Genetics	180	266
28.	Scientific Reports	178	226
29.	IEEE/CVF International Conference on Computer Vision	176	295
30.	PLoS ONE	175	237
31.	Nature Medicine	173	288
32.	Advanced Functional Materials	172	221
33.	International Conference on Machine Learning (ICML)	171	309
34.	The Astrophysical Journal	167	231
35.	Circulation	166	260
36.	Journal of the American College of Cardiology	164	232
37.	Journal of Materials Chemistry A	161	216
38.	Nature Nanotechnology	160	272
39.	ACS Applied Materials & Interfaces	160	200
40.	Journal of High Energy Physics JHEP	158	209
41.	Nature Biotechnology	154	269
42.	Journal of Cleaner Production	154	208

	발행처	h5-색인	h5-중앙값
43.	Neuron	154	199
44.	European Heart Journal	153	245
45.	Applied Catalysis B: Environmental	153	189
46.	Nature Neuroscience	152	219
47.	Nature Methods	151	242
48.	BMJ	150	222
49.	Accounts of Chemical Research	149	220
50.	Gastroenterology	148	222
51.	Physical Review D PRD	148	208
52.	Blood, The Journal of the American Society of Hematology	148	192
53.	Cochrane Database of Systematic Reviews	147	218
54.	Nano Energy	147	192
55.	American Economic Review	146	227
56.	ACS Catalysis	146	207
57.	Monthly Notices of the Royal Astronomical Society	146	193
58.	European Conference on Computer Vision	144	286
59.	Nature Photonics	144	245
60.	Computers in Human Behavior	144	198
61.	Applied Energy	143	185
62.	Science Advances	142	213
63.	Nature Physics Nature Physics	140	217

PRL 16위, JHEP 40위, PRD 51위, Nature physics 58위

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구글 스칼라의 상위 저작물 순위 (물리분야)

	발행처	h5-색인	h5-중앙값
1.	Physical Review Letters	209	288
2.	The Astrophysical Journal	167	231
3.	Journal of High Energy Physics	158	209
4.	Physical Review D	148	208
5.	Monthly Notices of the Royal Astronomical Society	146	193
6.	Nature Photonics	144	245
7.	Nature Physics	140	217
8.	Physical Review B	128	156
9.	Astronomy & Astrophysics	120	170
10.	Physical Review X	119	169

	발행처	h5-색인	h5-중앙값
11.	The European Physical Journal C	115	163
12.	Physics Letters B	109	143
13.	Optics Express	102	127
14.	IEEE Transactions on Automatic Control	100	152
15.	Reviews of Modern Physics	99	246
16.	Journal of Molecular Liquids	97	138
17.	IEEE Transactions on Signal Processing	97	137
18.	Applied Physics Letters	96	116
19.	International Journal of Heat and Mass Transfer	95	134
20.	IEEE Transactions on Geoscience and Remote Sensing	93	133

입자물리학 (JHEP 3위, PRD 4위, EPJC 11위, PLB 12위)

응집물리학 (PRB 8위)

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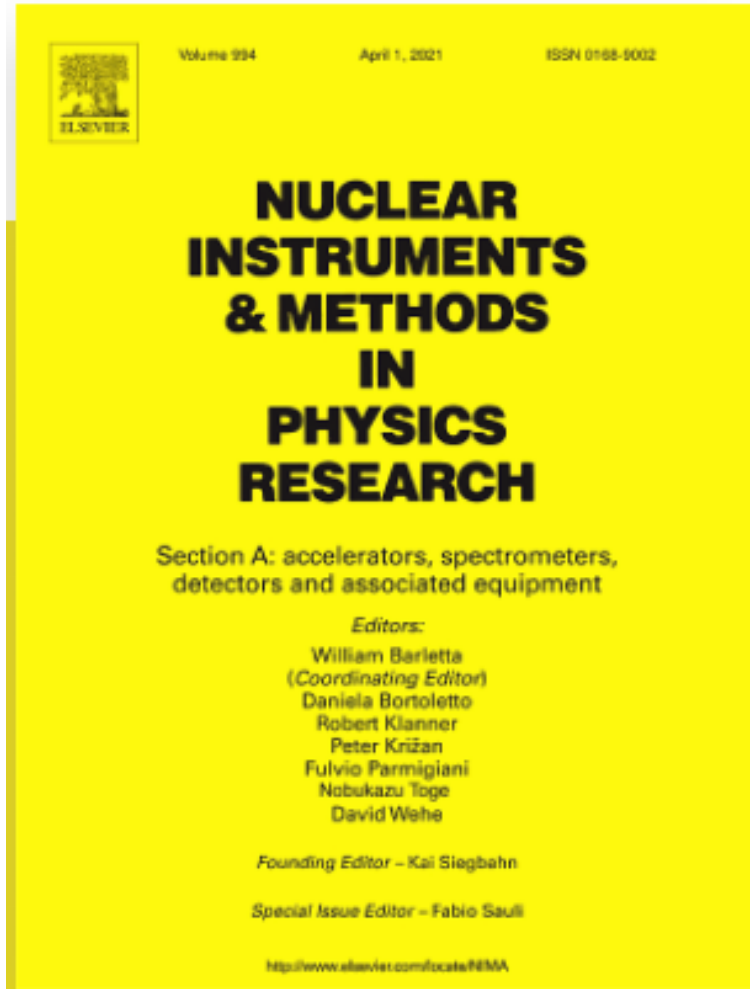
Instrumentation (실험장치개발) 관련 저널

2019 Impact factor : 1.454

2019 Impact factor : 1.362



Preprint 논문 아카이브 저장소 (arXiv.org)

- 수학, 물리학, 천문학, 전산 과학, 계량 생물학, 통계학 분야의 출판 전 (preprint) 논문을 수집하는 웹사이트
  - 최초에 LANL 사전 인쇄 아카이브라고 불리는 물리학 아카이브로 시작되었으나, 천문학 등 다른 분야로 확장됨.
  - 수학, 물리학, 천문학 분야의 논문은 거의 모두 이곳에서 찾을 수 있음.
  - 2008년 10월 3일, arXiv.org는 문서 수가 50만 개를 넘김.
  - 매달 약 5천편의 새로운 전자 문서(e-print)가 게시되고 있음.

Cornell University

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Physics

- Astrophysics (**astro-ph** new, recent, search)
  includes: Astrophysics of Galaxies; Cosmology and Nongalactic Astrophysics; Earth and Planetary Astrophysics; High Energy Astrophysical Phenomena; Instrumentation and Methods for Astrophysics; Solar and Stellar Astrophysics
- Condensed Matter (**cond-mat** new, recent, search)
  includes: Disordered Systems and Neural Networks; Materials Science; Mesoscale and Nanoscale Physics; Other Condensed Matter; Quantum Gases; Soft Condensed Matter; Statistical Mechanics; Strongly Correlated Electrons; Superconductivity
- General Relativity and Quantum Cosmology (**gr-qc** new, recent, search)
- High Energy Physics - Experiment (**hep-ex** new, recent, search)
- High Energy Physics - Lattice (**hep-lat** new, recent, search)
- High Energy Physics - Phenomenology (**hep-ph** new, recent, search)
- High Energy Physics - Theory (**hep-th** new, recent, search)
- Mathematical Physics (**math-ph** new, recent, search)
- Nonlinear Sciences (**nlin** new, recent, search)
  includes: Adaptation and Self-Organizing Systems; Cellular Automata and Lattice Gases; Chaotic Dynamics; Exactly Solvable and Integrable Systems; Pattern Formation and Solitons
- Nuclear Experiment (**nucl-ex** new, recent, search)
- Nuclear Theory (**nucl-th** new, recent, search)
- Physics (**physics** new, recent, search)
  includes: Accelerator Physics; Applied Physics; Atmospheric and Oceanic Physics; Atomic and Molecular Clusters; Atomic Physics; Biological Physics; Chemical Physics; Classical Physics; Computational Physics; Data Analysis, Statistics and Probability; Fluid Dynamics; General Physics; Geophysics; History and Philosophy of Physics; Instrumentation and Detectors; Medical Physics; Optics; Physics and Society; Physics Education; Plasma Physics; Popular Physics; Space Physics
- Quantum Physics (**quant-ph** new, recent, search)

Mathematics

- Mathematics (**math** new, recent, search)
  includes (see detailed description): Algebraic Geometry; Algebraic Topology; Analysis of PDEs; Category Theory; Classical Analysis and ODEs; Combinatorics; Commutative Algebra; Complex Variables; Differential Geometry; Dynamical Systems; Functional Analysis; General Mathematics; General Topology; Geometric Topology; Group Theory; History and Overview; Information Theory; K-Theory and Homology; Logic; Mathematical Physics; Metric Geometry; Number Theory; Numerical Analysis; Operator Algebras; Optimization and Control; Probability; Quantum Algebra; Representation Theory; Rings and Algebras; Spectral Theory; Statistics Theory; Symplectic Geometry

Computer Science

- Computing Research Repository (**CoRR** new, recent, search)
  includes (see detailed description): Artificial Intelligence; Computation and Language; Computational Complexity; Computational Engineering, Finance, and Science; Computational Geometry; Computer Science and Game Theory; Computer Vision and Pattern Recognition; Computers and Society; Cryptography and Security; Data Structures and Algorithms; Databases; Digital Libraries; Discrete Mathematics; Distributed, Parallel, and Cluster Computing; Emerging Technologies; Formal Languages and Automata Theory; General Literature; Graphics; Hardware Architecture; Human-Computer Interaction; Information Retrieval; Information Theory; Logic in Computer Science; Machine Learning; Mathematical Software; Multiagent Systems; Multimedia; Networking and Internet Architecture; Neural and Evolutionary Computing; Numerical Analysis; Operating Systems; Other Computer Science; Performance; Programming Languages; Robotics; Social and Information Networks; Software Engineering; Sound; Symbolic Computation; Systems and Control

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High Energy Physics - Experiment (since April 1994)

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  2021 2020 2019 2018 2017 2016 2015 2014 2013 2012 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1997 1996 1995 1994

High Energy Physics - Experiment

New submissions

Submissions received from Thu 18 Feb 21 to Fri 19 Feb 21, announced Mon, 22 Feb 21

- New submissions
- Cross-lists
- Replacements

[total of 15 entries: **1-15**]
[showing up to 2000 entries per page: fewer | more]

New submissions for Mon, 22 Feb 21

[1] arXiv:2102.09758 [pdf, other]

Precise Neutron Lifetime Measurement Using Pulsed Neutron Beams at J-PARC

N. Sumi, K. Hirota, G. Ichikawa, T. Ino, Y. Iwashita, S. Kajiwara, Y. Kato, M. Kitaguchi, K. Mishima, K. Morikawa, T. Mogi, H. Oide, H. Okabe, H. Otono, T. Shima, H. M. Shimizu, Y. Sugisawa, T. Tanabe, S. Yamashita, K. Yano, T. Yoshioka

Comments: 8 pages, 6 figures, Proceedings of J-PARC Symposium 2019

Subjects: **High Energy Physics - Experiment (hep-ex)**; Nuclear Experiment (nucl-ex)

A neutron decays into a proton, an electron, and an anti-neutrino through the beta-decay process. The decay lifetime (~880 s) is an important parameter in the weak interaction. For example, the neutron lifetime is a parameter used to determine the $|V_{ud}|$ parameter of the CKM quark mixing matrix. The lifetime is also one of the input parameters for the Big Bang Nucleosynthesis, which predicts light element synthesis in the early universe. However, experimental measurements of the neutron lifetime today are significantly different (8.4 s or 4.0σ) depending on the methods. One is a bottle method measuring surviving neutron in the neutron storage bottle. The other is a beam method measuring neutron beam flux and neutron decay rate in the detector. There is a discussion that the discrepancy comes from unconsidered systematic error or undetectable decay mode, such as dark decay. A new type of beam experiment is performed at the BL05 MLF J-PARC. This experiment measured neutron flux and decay rate simultaneously with a time projection chamber using a pulsed neutron beam. We will present the world situation of neutron lifetime and the latest results at J-PARC.

[2] arXiv:2102.10076 [pdf, other]

Search for charged Higgs bosons decaying into a top quark and a bottom quark at $\sqrt{s}$=13 TeV with the ATLAS detector

ATLAS Collaboration

Comments: 47 pages in total, author list starting page 31, 7 figures, 5 tables, submitted to JHEP. All figures including auxiliary figures are available at this https URL

Subjects: **High Energy Physics - Experiment (hep-ex)**

A search for charged Higgs bosons decaying into a top quark and a bottom quark is presented. The data analysed correspond to 139 fb^{-1} of proton-proton collisions at $\sqrt{s}$=13TeV, recorded with the ATLAS detector at the LHC. The production of a heavy charged Higgs boson in association with a top quark and a bottom quark, $pp \to tbH^+ \to tbtb$, is explored in the H^+ mass range from 200 to 2000 GeV using final states with jets and one electron or muon. Events are categorised according to the multiplicity of jets and b-tagged jets, and multivariate analysis techniques are used to discriminate between signal and background events. No significant excess above the background-only hypothesis is observed and exclusion limits are derived for the production cross-section times branching ratio of a charged Higgs boson as a function of its mass; they range from 3.6 pb at 200 GeV to 0.035 pb at 2000 GeV at 95% confidence level. The results are interpreted in the hMSSM and M_h^{125} scenarios.

Cross-lists for Mon, 22 Feb 21

[3] arXiv:2102.09773 (cross-list from hep-ph) [pdf, other]

Deep inelastic scattering as a probe of entanglement: confronting experimental data

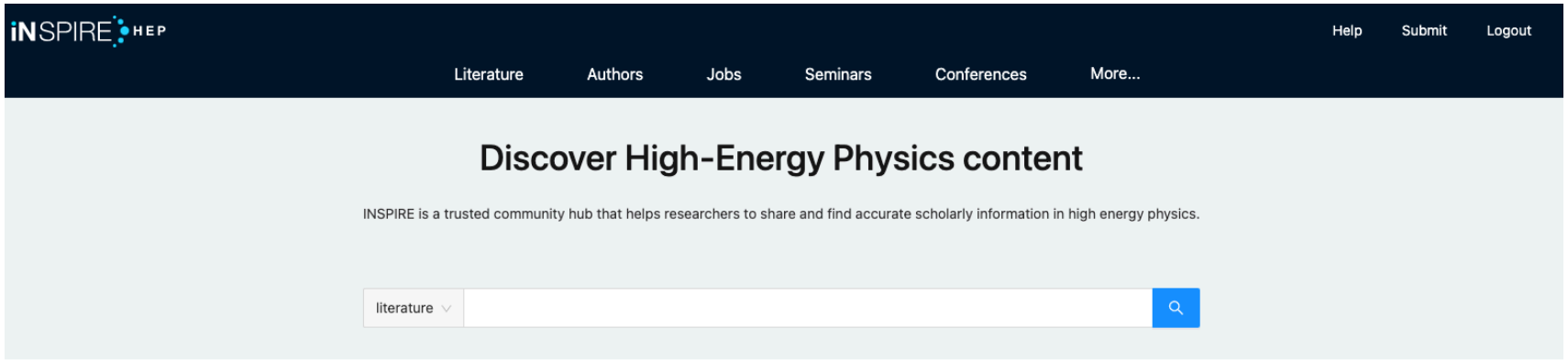
Dmitri E. Kharzeev (Stony Brook U./BNL), Eugene Levin (Tel Aviv U./UTFSM)

Comments: 4pp. 6 figures in pdf files

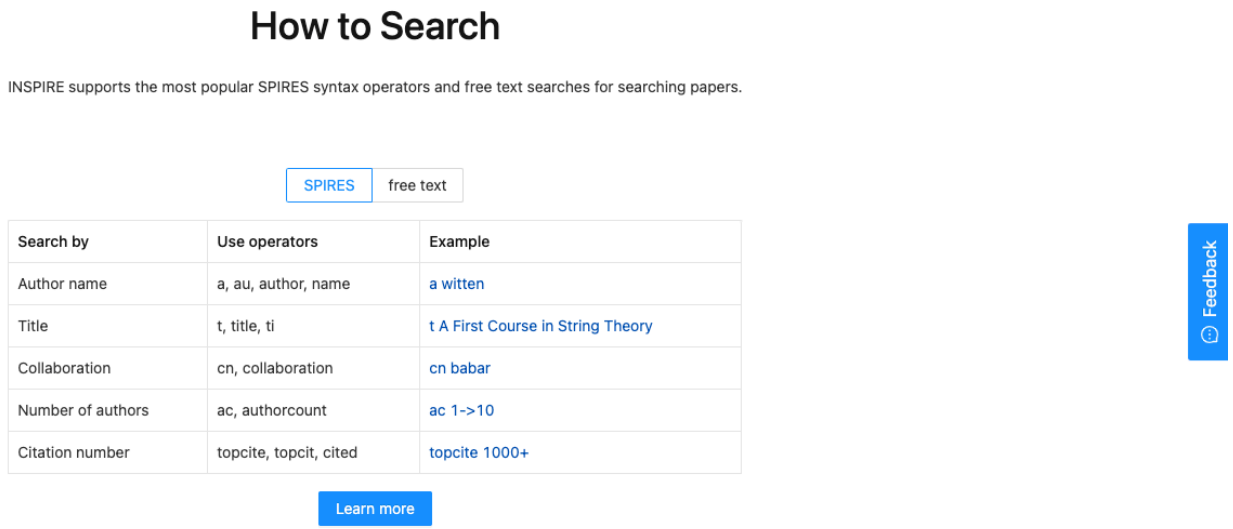
Subjects: **High Energy Physics - Phenomenology (hep-ph)**; High Energy Physics - Experiment (hep-ex)

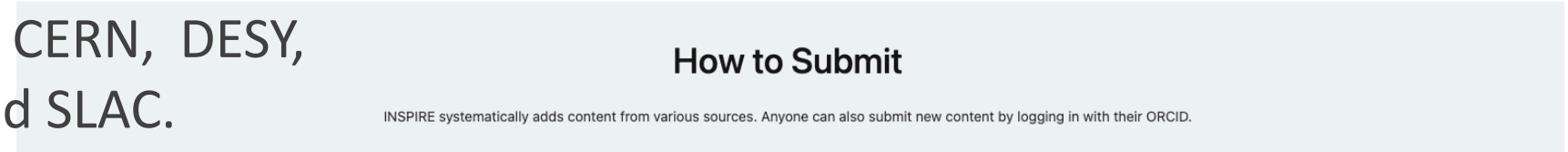
입자핵물리학 커뮤니티 정보 창고 (INSPIRE-HEP)

https://inspirehep.net



- Open access digital library for the field of high energy physics (HEP).
- Successor of the Stanford Physics Information Retrieval System (SPIRES) database
- Main literature database for high energy physics since the 1970s.
- Run in collaboration by CERN, DESY, Fermilab, IHEP, IN2P3, and SLAC.





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Number of authors

- Single author 481,863
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Exclude RPP

- Exclude Review of Particle Physics 1,409,897

Document Type

- article 906,797
- published 754,315
- conference paper 421,868
- thesis 45,038
- review 32,272
- note 16,313
- proceedings 11,839
- lectures 10,596
- book 4,461
- book chapter 3,856

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Author

- Gerald Eigen 2,518
- Sau Lan Wu 2,406
- Kazuhiko Hara 2,369
- James Edward Brau 2,320
- Abraham Seiden 2,303
- David M. Strom 2,280
- Arie Bodek 2,277
- Richard D. Kass 2,276
- William T. Ford 2,272
- Robert V. Kowalewski 2,242

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Einstein–Rosen universe with scalar field in f(R,T) theories #1
Doğukan Taşer, Melis Ulu Doğru (Jul, 2021)
Published in: *New Astron.* 86 (2021) 101575
DOI | cite | 0 citations

A dissipation-preserving scheme to approximate radially symmetric solutions of the Higgs boson equation in the de Sitter space-time #2
J.F. Macías-Díaz (Tallinn Pedagogical U. and Puebla U., Mexico) (May, 2021)
Published in: *Commun.Nonlinear Sci.Numer.Simul.* 96 (2021) 105698
DOI | cite | 0 citations

Bounded solution structure of Schrödinger equation in the presence of the minimal length and its effect: Bound states in the continuum are universal #3
Xiao Zhang (Sichuan U.), Bo Yang (Yunnan Normal U.), Chaozhen Wei (Worcester Poly.), Maokang Luo (Sichuan U.) (May, 2021)
Published in: *Commun.Nonlinear Sci.Numer.Simul.* 96 (2021) 105694
DOI | cite | 0 citations

Kaluza-Klein FRW dark energy models in Saez-Ballester theory of gravitation #4
R.L. Naidu (GMR, Rajam), Y. Aditya (GMR, Rajam), K. Deniel Raju (Unlisted, IN), T. Vinutha (Andhra U.), D.R.K. Reddy (Andhra U.) (May, 2021)
Published in: *New Astron.* 85 (2021) 101564
DOI | cite | 0 citations

Viability bounds in f(R,G) gravity with energy conditions #5
Rameshwar Singh (May, 2021)
Published in: *New Astron.* 85 (2021) 101513
DOI | cite | 0 citations

Influence of nuclear thermometers and hot nuclei properties on nuclear temperature isospin effect measurement #6
Hui-Xiao Duan, Dong-Hai Zhang, Fan Zhang, Hai-Shun Wu (May, 2021)
Published in: *Nucl.Phys.A* 1009 (2021) 122156
DOI | cite | 0 citations

Shuffle algebra realization of quantum affine superalgebra Uv(D^(2,1;θ)) #7
Boris Feigin (Higher Sch. of Economics, Moscow and Landau ITP, Chernogolovka), Yue Hu (Moscow, ITEP) (May 1, 2021)
Published in: *J.Algebra* 573 (2021) 539-560
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Development and vertical tests of 650 MHz 2-cell superconducting cavities with higher order mode couplers #8
Hongjuan Zheng (Beijing, Inst. High Energy Phys.), Peng Sha (Beijing, Inst. High Energy Phys. and Beijing, GUCAS), Jiyuan Zhai (Beijing, Inst. High Energy Phys. and Beijing, GUCAS), Weimin Pan (Beijing, Inst. High Energy Phys. and Beijing, GUCAS), Zhongquan Li (Beijing, Inst. High Energy Phys. and Beijing, GUCAS) et al. (Apr 11, 2021)

Subject

- Astrophysics 266,067
- Phenomenology-HEP 221,324
- Theory-HEP 186,140
- Experiment-HEP 121,936
- Gravitation and Cosmology 113,151
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Collaboration

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Published in: *Nucl.Instrum.Meth.A* 995 (2021) 165093
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Spectral distribution and Coulomb correction for nuclear bremsstrahlung induced by heavy targets #9
A. Mangiarotti, W. Lauth, D.H. Jakubassa-Amundsen, P. Klag, A.A. Malafronte et al. (Apr 10, 2021)
Published in: *Phys.Lett.B* 815 (2021) 136113
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Production of neutron-rich N = 126 nuclei in multinucleon transfer reactions: Comparison between 136 Xe + 198 Pt and 238 U + 198 Pt reactions #10
K. Zhao, Z. Liu, F.S. Zhang, N. Wang (Apr 10, 2021)
Published in: *Phys.Lett.B* 815 (2021) 136101
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Uncommonly accurate energies for the general quartic oscillator #11
Pavel Okun, Kieron Burke (Apr 5, 2021)
Published in: *Int.J.Quant.Chem.* 121 (2021) 7, e26554
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Role of mass asymmetry on the peak energy of intermediate mass fragments production and its influence towards isospin effects #12
Sakshi Sharma (Panjab U.), Rohit Kumar (Panjab U.), Rajeev K. Puri (Panjab U.) (Apr, 2021)
Published in: *Nucl.Phys.A* 1008 (2021) 122144
DOI | cite | 0 citations

Plane-symmetric dark energy model with a massive scalar field #13
Y. Aditya (GMR, Rajam), U.Y. Divya Prasanthi (GMR, Rajam), D.R.K. Reddy (Andhra U.) (Apr, 2021)
Published in: *New Astron.* 84 (2021) 101504
DOI | cite | 0 citations

Systematics of electric dipole excitations for odd-mass 233–239 U isotopes #14
E. Tabar (Sakarya U.), H. Yakut (Sakarya U.), E. Kemah (Sakarya U.), N. Demirci Saygı (Sakarya U.), G. Hoşgör (Sakarya U.) et al. (Apr, 2021)
Published in: *Nucl.Phys.A* 1008 (2021) 122138
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Vacuum system design, construction, and operation for the Cornell High Energy Synchrotron Source upgrade #15
Yevgeniy Lushtak (Cornell U., CLASSE), David Burke (Cornell U., CLASSE), Yulin Li (Cornell U., CLASSE), Aaron Lyndaker (Cornell U., CLASSE), Xianghong Liu (SLAC) et al. (Apr, 2021)
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Chang-Seong Moon (Fermilab and Kyungpook Natl. U.)

hep-ex

Experiments: CERN-LHC-CMS, FNAL-E-0830

Author Identifier: C.S.Moon.1

PhD Advisor: Soo-Bong Kim

- present **VISITOR,** Fermilab
- 2017-present **SENIOR,** Kyungpook Natl. U.
- 2014-2017 **POSTDOC,** Sao Paulo, IFT
- 2012-2014 **POSTDOC,** Paris U., VI-VII
- 2011-2012 **POSTDOC,** Seoul Natl. U.
- 2006-2011 **PHD,** Seoul Natl. U.
- 2004-2006 **MASTER,** Seoul Natl. U.

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Document Type

- article 1,107
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Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions #1

CMS Collaboration • Albert M Sirunyan (Yerevan Phys. Inst.) et al. (Feb 17, 2021)

e-Print: 2102.08816 [hep-ex]

pdf | cite | 0 citations

Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV #2

CMS Collaboration • Albert M Sirunyan (Yerevan Phys. Inst.) et al. (Feb 16, 2021)

e-Print: 2102.08198 [hep-ex]

pdf | cite | 0 citations

Hard color-singlet exchange in dijet events in proton-proton collisions at $\sqrt{s} = 13$ TeV #3

TOTEM Collaboration • Albert M Sirunyan (Yerevan Phys. Inst.) et al. (Feb 13, 2021)

e-Print: 2102.06945 [hep-ex]

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Performance of the CMS muon trigger system in proton-proton collisions at $\sqrt{s} = 13$ TeV #4

CMS Collaboration • Albert M Sirunyan (Yerevan Phys. Inst.) et al. (Feb 9, 2021)

e-Print: 2102.04790 [hep-ex]

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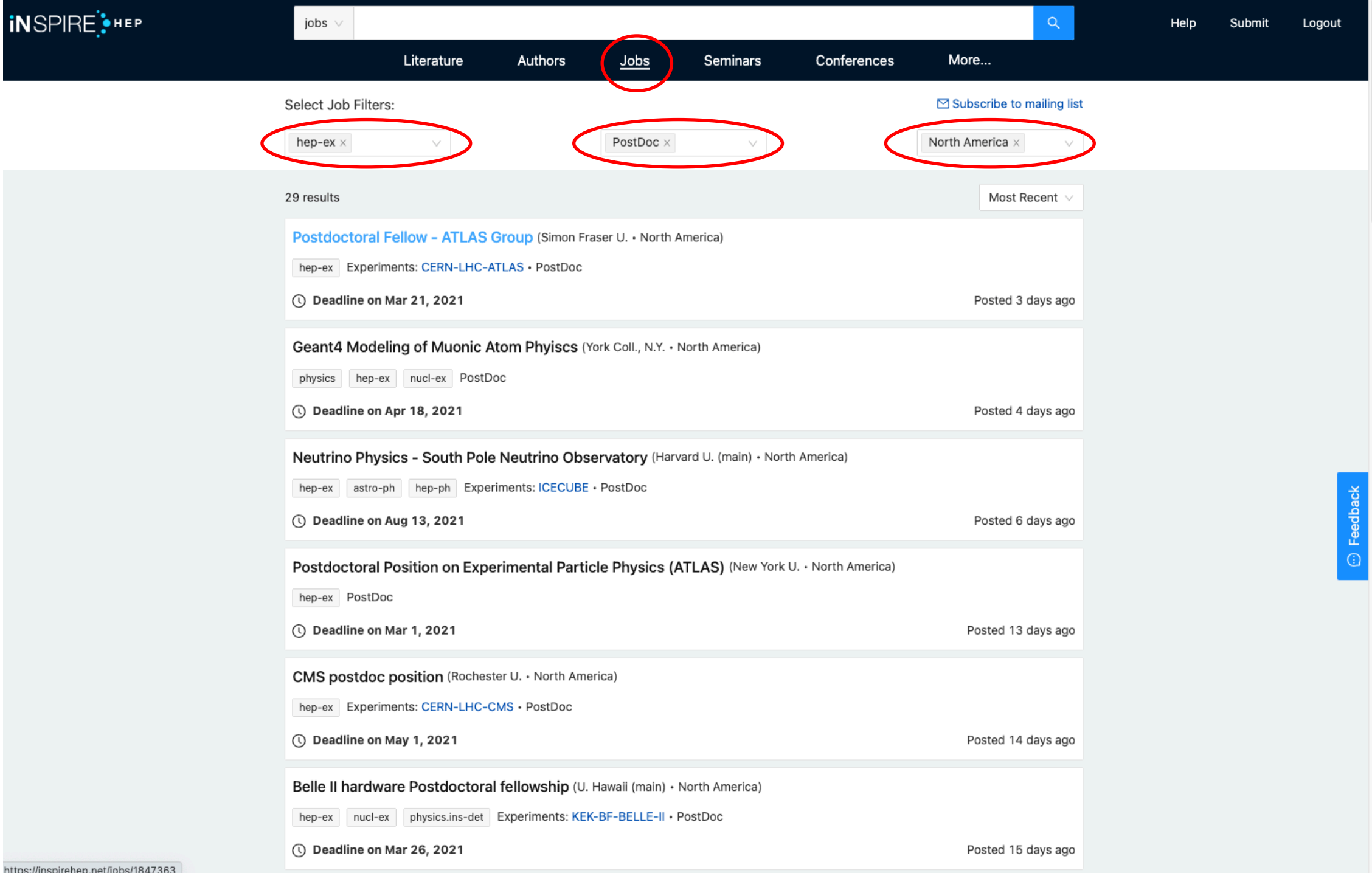

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Ilias Cholis (Oakland U.)
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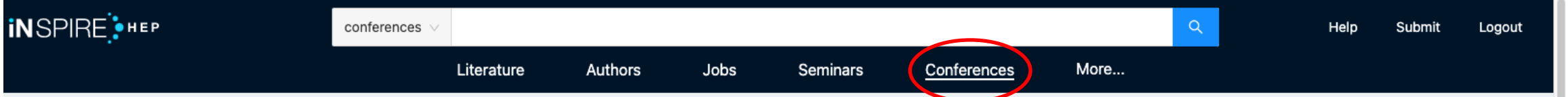

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Unveiling hidden Physics Beyond the Standard Model at the LHC
1-3 March 2021. Online Conference, United Kingdom (C21-03-01.1)
Phenomenology-HEP Experiment-HEP
website

Virtual entities in science: a virtual workshop
5-19 March 2021. Online Conference, Germany (C21-03-05)
Experiment-HEP Astrophysics General Physics Phenomenology-HEP Theory-HEP Theory-Nucl Lattice
website

Interplay of Neutrino and Dark matter Experiments and Exotics Searches (INDEES)
18-19 March 2021. Online Conference, Korea, Republic of (C21-03-18)
Experiment-HEP
website

Beyond Standard Model: From Theory to Experiment (BSM-2021)
29-31 March 2021. Online, United Kingdom (C21-03-29)
Phenomenology-HEP Theory-HEP Gravitation and Cosmology Experiment-HEP Astrophysics
website

FunQCD: from first principles to effective theories (FunQCD2021)
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GRID Record: grid.258803.4
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Parent Institution: Kyungpook Natl. U., Daegu (Main)

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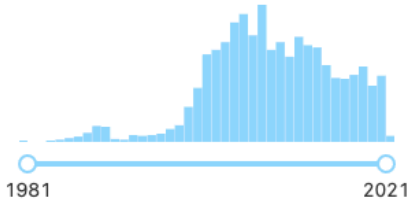

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Document Type

- article 2,060
- published 2,044
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Optimization and characterization of detector and trigger system for a KAPAE design #1

Dong Woo Jeong (Kyungpook Natl. U.), Arshad Khan (Kyungpook Natl. U.), Hyeoung Woo Park (Kyungpook Natl. U.), Jik Lee (CHEP, Taegu), H.J. Kim (Kyungpook Natl. U.) (Feb 11, 2021)

Published in: *Nucl.Instrum.Meth.A* 989 (2021) 164941

DOI | cite | 0 citations

Self-consistent light-front quark model analysis of $B \to D\ell\nu_\ell$ transition form factors #2

Ho-Meoyng Choi (Kyungpook Natl. U.) (Feb 3, 2021)

e-Print: 2102.02015 [hep-ph]

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CutLang V2: towards a unified Analysis Description Language #3

B. Gokturk (Bogazici U.), A.M. Toon (USJ, Beirut), A. Paul (ICTP, Trieste), B. Orgen (Bogazici U.), N. Ravel (iHEP-MAD) et al. (Jan 22, 2021)

e-Print: 2101.09031 [hep-ph]

pdf | cite | 0 citations

Prospect of the search for W' in vector boson fusion at the high-luminosity large hadron collider #4

DongHee Kim (Kyungpook Natl. U.), YoungDo Oh (Kyungpook Natl. U.), BongHo Tae (Kyungpook Natl. U.), JeongEun Lee (Seoul Natl. U.) (Jan 19, 2021)

Published in: *J.Korean Phys.Soc.* 78 (2021) 3, 182-187

Feedback

CERN-LHC-CMS (CERN)

CMS: The Compact Muon Solenoid
(Proposed: Oct 1, 1992, Approved: Jan 31, 1996, Started: Nov 23, 2009, Completed: 9999)
CMS Collaboration

The 27-km Large Hadron Collider (LHC) is the largest and most powerful particle accelerator ever built. It accelerates protons to nearly the velocity of light -- in clockwise and anti-clockwise directions -- and then collides them at four locations around its ring. At these points, the energy of the particle collisions gets transformed into mass, spraying particles in all directions. The Compact Muon Solenoid (or CMS) detector sits at one of these four collision points. It is a general-purpose detector; that is, it is designed to observe any new physics phenomena that the LHC might reveal. CMS acts as a giant, high-speed camera, taking 3D "photographs" of particle collisions from all directions up to 40 million times each second. Although most of the particles produced in the collisions are "unstable", they transform rapidly into stable particles that can be detected by CMS. By identifying (nearly) all the stable particles produced in each collision, measuring their momenta and energies, and then piecing together the information of all these particles like putting together the pieces of a puzzle, the detector can recreate an "image" of the collision for further analysis.

Articles associated with CERN-LHC-CMS
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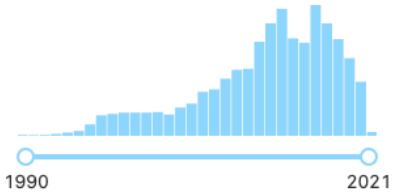

Number of authors

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Performance of the CMS muon trigger system in proton-proton collisions at $\sqrt{s} = 13$ TeV #1
CMS Collaboration · Albert M Sirunyan (Yerevan Phys. Inst.) et al. (Feb 9, 2021)
e-Print: 2102.04790 [hep-ex]
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Observation of a new excited beauty strange baryon decaying to $\Xi_b^- \pi^+ \pi^-$ #2
CMS Collaboration · Albert M Sirunyan (Yerevan Phys. Inst.) et al. (Feb 8, 2021)
e-Print: 2102.04524 [hep-ex]
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Investigation and Mitigation of Crosstalk in the Prototype ME0 GEM Detector for the Phase-2 Muon System Upgrade of the CMS Experiment #3
CMS Muon Group · Stephen D. Butalla (Florida Inst. Tech.) et al. (Feb 5, 2021)
e-Print: 2102.03342 [physics.ins-det]
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Intelliquench: an adaptive machine learning system for detection of superconducting magnet quenches. #4

Feedback

73589 core citations up to the end of 2019
Review of Particle Physics
Particle Data Group (M. Tanabashi (Nagoya U. & KMI, Nagoya) *et al.*). 2018. 1898 pp.
Published in **Phys.Rev. D98 (2018) no.3, 030001**

Top Cited Articles of All Time (2019 edition)

1. (14797 times) The Large N limit of superconformal field theories and supergravity
Juan Martin Maldacena (Harvard U.). Nov 1997. 21 pp.
Published in Int.J.Theor.Phys. 38 (1999) 1113-1133, Adv.Theor.Math.Phys. 2 (1998) 231-252

2. (10711 times) A Model of Leptons
Steven Weinberg (MIT, LNS). Nov 1967. 3 pp.
Published in Phys.Rev.Lett. 19 (1967) 1264-1266

3. (10589 times) PYTHIA 6.4 Physics and Manual, Torbjorn Sjostrand (Lund U., Dept. Theor. Phys.)
Stephen Mrenna, Peter Z. Skands (Fermilab). Mar 2006. 576 pp.
Published in JHEP 0605 (2006) 026

4. (10158 times) Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC
ATLAS Collaboration (Georges Aad (Freiburg U.) et al.). Jul 2012. 29 pp.
Published in Phys.Lett. B716 (2012) 1-29

5. (9930 times) Observation of a New Boson at a Mass of 125 GeV with the CMS Experiment at the LHC
CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Jul 2012. 32 pp.
Published in Phys.Lett. B716 (2012) 30-61

6. (9797 times) GEANT4: A Simulation toolkit
GEANT4 Collaboration (S. Agostinelli (Genoa U.) et al.). Aug 2002. 86 pp.
Published in Nucl.Instrum.Meth. A506 (2003) 250-303

7. (9601 times) Anti-de Sitter space and holography
Edward Witten (Princeton, Inst. Advanced Study). Feb 1998. 39 pp.
Published in Adv.Theor.Math.Phys. 2 (1998) 253-291

8. (9301 times) CP Violation in the Renormalizable Theory of Weak Interaction
Makoto Kobayashi, Toshihide Maskawa (Kyoto U.). Feb 1973. 6 pp.
Published in Prog.Theor.Phys. 49 (1973) 652-657

9. (8213 times) Gauge theory correlators from noncritical string theory
S.S. Gubser, Igor R. Klebanov, Alexander M. Polyakov (Princeton U.). Feb 1998. 14 pp.
Published in Phys.Lett. B428 (1998) 105-114

10. (8180 times) A Large mass hierarchy from a small extra dimension
Lisa Randall (Princeton U. & MIT, LNS), Raman Sundrum (Boston U.). May 1999. 9 pp.
Published in Phys.Rev.Lett. 83 (1999) 3370-3373

https://old.inspirehep.net/info/hep/stats/topcites/2019/alltime.html

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- International Conference on High Energy Physics (ICHEP)
  - 2년에 한 번 개최되는 입자물리학 분야 최대 학회
  - Rochester conference 로 시작됨.
- Lepton Photon
  - ICHEP과 함께 격년으로 개최되는 메이저 학회
- Quark Matter
  - 핵물리분야 최대 메이저 학회
- International Conference on Neutrino Physics and Astrophysics
  - 참가인원 1000명 이상의 Neutrino physics 분야의 최대 학회
- Rencontres de Moriond (QCD / EW)
- Large Hadron Collider Physics Conference (LHCP)
- European Physical Society Conference on High Energy Physics (EPS)
- International Conference on Supersymmetry and Unification of Fundamental Interactions (SUSY)
- American Physical Society (APS)April Meeting
  - 대학원생들이 Parallel Talk이 가능한 메이저 국제학회

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  - 가을 학술발표회 : 10월말 (보통 2학기 중간고사 기간)
- 물리학회 대구경북지부학회
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  - 여름 (KNU 단독)
  - 겨울 (Joint 워크샵 with 부산대 등등)

발표 슬라이드 작성법 (주기적인 발표시) 1

- 발표 슬라이드는 연구 전체 계획 + 현재 진행상황이 잘 설명되어야 함.
- 슬라이드를 만드는데 연구결과를 만드는 만큼 공을 들여야 하고 그만한 가치가 있는 일이다.
  - 나중에 논문을 작성하거나 다른 중요한 작업에 참조할 때, 그리고 다른 사람들에게 업무를 인수인계할 수 필수적인 자료가 된다.
  - 슬라이드를 대충 작성하면 나중에 본인을 포함해서 많은 사람이 해석하는데 많은 시간이 소요된다.
- 이전 발표에 대한 내용을 리마인드 설명하는 것이 중요함.
  - 생각보다 다른 사람들은 내 연구결과에 대해서 금방 잊어버린다.
  - 지난 발표에 이어서 그와 관련해서 이번 발표에 대한 연구목적을 설명한다.

    가령, 지난 실험에서 이러한 문제가 있어서 이번 주에는 이런 방법으로 시도해보았다 등등..
- 상세한 설명과 더불어 도식화해서 설명한다.
  - 필요하면 참조가 될만한 그림이나 기타 자료 첨부

발표 슬라이드 작성법 (주기적인 발표시) 2

- 첫페이지는 항상 발표할 내용을 한눈에 알 수 있도록 요약한다.
  - 전체적인 구성과 연구 절차에 대해서 소개
  - 핵심적인 결과를 미리 이야기해서 호기심을 자극함
- 한 페이지당 하나의 내용만 넣을 것.
  - 한 페이지에 여러 내용이 한꺼번에 들어가면 이해도를 떨어뜨리고, 집중도가 흐트어지게 된다.
- 슬라이드 제목은 해당 슬라이드를 잘 요약할 수 있어야 함.
  - 반복적이고, 무의미한 제목은 지양한다.
- 슬라이드의 내용에 관련된 팁
  - 단순 결과 나열은 지양하고, 결과에 대한 의견 및 결론을 반드시 제시해야 함.
  - 슬라이드 마지막 부분에서는 계획과 문제해결방안 제시

발표 슬라이드 작성법 (주기적인 발표시) 3

- 슬라이드를 작성시 착안점
  - 사람들의 궁금증을 먼저 해결해주자. 지난 미팅 때 받았던 코멘트나 질문에 대한 답을 해주자.
  - 본인만 아는 약자/기호는 절대로 쓰지말 것. 모든 사람이 사용하는 언어를 사용해야 한다.
  - 가급적이면 성공한 좋은 결과를 먼저 보여주고, 실패한 결과를 나중에 보여주자.
- 발표할 것이 없더라도 맨손으로 미팅에 참석하면 안됨.
  - 발표자료가 없어도 현재 상황 및 앞으로 계획을 설명할 수 있도록 준비한다.
  - 만약 사정이 있으면 그에 대한 양해를 구한다.

    예) 시험 때문에 시간이 없었다든지 설명