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RHIC-STAR

STAR MRPC MRPC TOF RHIC-MRPC

Science
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Nature
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G. E. Valley

Fellow
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APS
Robert T. Poe

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Nature (doi:10.1038/news.2010.108) “Heavyantimatter
created in gold collisions” “To find the new antihydrogen, JinhuiChen of the
Shanghai Institute of Applied Physics... developed sophisticated software that could
pick out thenew antinucleons”

Stoecker “This experimental discovery may have

unprecedented consequence for our view of the world. Anti-hypertriton pushes open the door to new dimensions in the nuclear chart: from the normal matter to the antimatter world and to the world of anti-hyper-matter – just a few years ago this would have been viewed as impossible.”

(<http://www.bnl.gov/rhic/news2/news.asp?a=1075&t=pr>)

LHC ALICE
arXiv:1506.08453

HypHI

ALICE

William F. Brinkman说“ This discovery highlights the extraordinary capabilities of RHIC to investigate fundamental questions about the nature of matter, antimatter, and the early universe”

(<http://www.bnl.gov/rhic/news2/news.asp?a=1259&t=pr>) 。

(http://www.lssf.cas.cn/gjhzxm/201110/t20111020_3379247.html)

LHC-ALICE
J.Phys.G,2011,38:124189

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STAR-TOF TOF RICE “U.S., China Cooperate on High-Energy Physics Experiment” “Without our Chinese partners, this new system wouldn't have been feasible. Their detectors are superior in quality to any of the prototypes we created, and their support and enthusiasm for the project are unparalleled.” said lab director Billy Bonner, a co-principal investigator on the new DOE grant. (<http://www.bnl.gov/rhic/news2/news.asp?a=477&t=pr>)

TOF BNL STAR

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This constitutes a scientific legacy that will impact nuclear science in China and in

theworld for decades...The close cooperation between US and Chinese scientists that wasrequired for this success now serves as a model for future joint U.S.-China scientificventures...The STAR construction effort in China has been a completescientific and technical success at every level, and the Chinese TOF team is to behighly congratulated.

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编号: 2015695b 附件二

20 篇重要论文 (1—8 篇为代表性论文) 引用、收录情况统计:

序号	论文专著 名称/刊名 /作者	影响因子	年卷页码 (xx 年 xx 卷 xx 页)	SCI 他引次数	他引总 次数
1	Observation of the antimatter helium-4 nucleus/ NATURE/The STAR Collaboration	38.6	2011年473卷 7347期353- 356 页	35	35
2	Observation of an antimatter hypernucleus/ SCIENCE/The STAR Collaboration	31.03	2010年328卷 5974 期 58- 62 页	67	67
3	Identified baryon and meson distributions at large transverse momenta from Au plus Au collisions at root(S)(NN)=200 GeV/ PHYSICAL REVIEW LETTERS/The STAR Collaboration	7.94	2006年97卷 15期	120	120
4	Pion, kaon, proton and anti-proton transverse momentum distributions from p+p and d+Au collisions at root(NN)=200GeV/ PHYSICS LETTERS B/The STAR Collaboration	3.96	2005年616卷 1-2 期 8-16 页	72	72
5	Open charm yields in d+Au collisions at root s(NN)=200 GeV/ PHYSICAL REVIEW LETTERS/The STAR Collaboration	7.94	2005年94卷6 期	152	152
6	Identified particle distributions in pp and Au+Au collisions at root s(NN)=200GeV/ PHYSICAL REVIEW LETTERS/The STAR Collaboration	7.94	2004年92卷 11 期	237	237
7	Centrality dependence of charged hadron and strange hadron elliptic flow from root s(NN)=200 GeVAu+Au collisions/ PHYSICAL REVIEW C/The STAR Collaboration	3.69	2008年77卷5 期	122	122
8	Partonic flow and phi-meson production in Au+Au collisions at root s(NN)=200GeV/ PHYSICAL REVIEW LETTERS/The STAR Collaboration	7.94	2007年99卷 11期	92	92
8篇代表性论文专著引用情况合计				897	897

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9	Higher Moments of Net Proton Multiplicity Distributions at RHIC/ PHYSICAL REVIEW LETTERS/The STAR Collaboration	7.94	2010 年 105 卷 2 期	104	104
10	Identified particle production, azimuthal anisotropy, and interferometry measurements in Au plus Au collisions at root s(NN)=9.2 GeV/ PHYSICAL REVIEW C/The STAR Collaboration	3.69	2010 年 81 卷 2 期	58	58
11	J/psi production at high transverse momenta in p plus p and Cu plus Cu collisions at root s(NN)=200 GeV/ PHYSICAL REVIEW C/The STAR Collaboration	3.69	2009 年 80 卷 4 期	49	49
12	Measurements of phi meson production in relativistic heavy-ion collisions at the BNL Relativistic Heavy Ion Collider (RHIC) / PHYSICAL REVIEW C/The STAR Collaboration	3.69	2009 年 79 卷 6 期	43	43

System-Size Independence of Directed Flow Measured at the BNL

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20	Di-hadron azimuthal correlation and Mach-like cone structure in a parton/hadron transport model/ PHYSICS LETTERS B/ Ma, G. L. et al.,		2006年641卷 5期 36	45	45
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