## 30th Winter Workshop on Nuclear Dynamics

(WWND 2014)

**Journal of Physics: Conference Series Volume 535** 

Galveston, Texas, USA 6-12 April 2014

ISBN: 978-1-63439-344-7

ISSN: 1742-6588

## Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© by the Institute of Physics All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact the Institute of Physics at the address below.

Institute of Physics Dirac House, Temple Back Bristol BS1 6BE UK

Phone: 44 1 17 929 7481 Fax: 44 1 17 920 0979

techtracking@iop.org

## Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2634

Email: curran@proceedings.com Web: www.proceedings.com

30th Winter Workshop on Nuclear Dynamics (WWND2014)
R Bellwied, F Geurts and A Timmins
Peer review statement
Papers
012001
Hanbury Brown and Twiss Interferometry with respect to 2nd and 3rd-order event planes in Au+Au collisions at $\sqrt{s_{NN}} = 200 \text{ GeV}$ 1
T Niida
012002
Free energy and direct photon emission at finite chemical potential 5
S S Singh
012003
Recent results of gluon and sea quark polarization measurements in polarized proton- proton collisions at STAR 13
X Li
012004
Recent STAR Results from U+U and Au+Au Collisions 21
H Wang
012005
Flow in the RHIC Beam Energy Scan from STAR 27
X Sun
012006
<u>Dielectron production in 200 GeV p+p and Au+Au collisions at STAR</u> 34
Y Guo

Preface

012007

Recent results on event-by-event fluctuations from the RHIC Beam Energy Scan program in the STAR experiment 40

N R Sahoo

012008

Centrality Dependence of Low Momentum Direct Photon Production in  $\sqrt{s_{NN}} = 200$ GeV Au+Au Collisions in PHENIX 48

R Petti

012009

Beam Energy Dependence of Clan Multiplicity at RHIC 56

A Tang

012010

Remarkable Features of Decaying Hagedorn States 62

M Beitel, K Gallmeister and C Greiner

012011

Double ratio of charmonia in p + Pb collisions at  $\sqrt{s_{NN}} = 5.02 \text{ TeV}$  70

Y Liu, C M Ko and T Song

012012

Multiple Parton Interactions with ALICE: from pp to p-Pb 75

A Morsch

012013

Anisotropic flows and the shear viscosity of the QGP within a transport approach 84

S Plumari, G L Guardo, A Puglisi, F Scardina and V Greco

012014

G Chen and R J Fries 012015 Centrality categorization and application to physics effects in high-energy d + Acollisions J D O Koop 012016 Equation of state, fluctuations and other recent results from LQCD 107 S Krieg 012017 The  $\eta/s$  of hadrons out of chemical equilibrium 115 A Wiranata, M Prakash, P Huovinen, V Koch and X N Wang 012018 Hadronic Shear Viscosity: A Comparison between the Green-Kubo and Chapmann Enskog Methods 122 N Demir and A Wiranata 012019 Heavy Flavor Suppression, Flow and Azimuthal Correlation: Boltzmann vs Langevin 132 F Scardina, S K Das, S Plumari, D Perricone and V Greco 012020 Self-consistent Cooper-Frye freeze-out of a viscous fluid to particles 140 Z Wolff and D Molnar 012021 Heavy flavor production in the STAR experiment 148 B Trzeciak

Transverse Flow of Gluon Fields in Heavy Ion Collision 92

```
012022
```

STAR upgrade program and future physics 156

Y Wang

012023

<u>Latest results on heavy flavor di-lepton (p-Pb and Pb-Pb)</u> 163

D H Moon

012024

Probing chiral restoration with ρ-meson melting through sum rules 169

P M Hohler and R Rapp

012025

A Comparison of HBT Measurements for d + Au and Au + Au collision systems at  $\sqrt{s_{NN}} = 200 \text{ GeV}$  178

A Mwai

012026

Particle production and final state effects in nuclear collisions 187

C Gale, S Jeon, B Schenke, P Tribedy and R Venugopalan

012027

Measurement of D-meson production in pp, p-Pb, and Pb-Pb collisions at the LHC with the ALICE detector 194

C Jena

012028

Hydrodynamic flow in proton-nucleus collisions at the LHC 204

K Werner, B Guiot, I Karpenko and T Pierog

012029

Measurements of heavy-flavour decay leptons in pp, p-Pb, and Pb-Pb collisions with ALICE 209

S LaPointe

012030

Fluctuations of conserved charges on the lattice and in heavy ion collisions 218

S Borsanyi, Z Fodor, S D Katz, S Krieg, C Ratti and K K Szabo

012031

In-medium meson properties and screening correlators 225

A Bazavov, F Karsch, Y Maezawa, S Mukherjee and P Petreczky

012032

Kinetic Simulations of Rayleigh-Taylor Instabilities 235

I Sagert, W Bauer, D Colbry, J Howell, A Staber and T Strother

012033

<u>Understanding non-linear hydrodynamic response in heavy-ion collisions via event-plane correlations</u> 242

S Mohapatra

012034

Numerical Simulation of Thermal Noise in Heavy Ion Collisions 248

C Young, J I Kapusta, C Gale, S Jeon and B Schenke