

**6th International Workshop on Critical Point and Onset of Deconfinement  
Dubna, Joint Institute for Nuclear Research, August 23–29, 2010**

**ЭЛЕМЕНТАРНЫЕ ЧАСТИЦЫ И ПОЛЯ**

Preface	572
<b>Introductory Lecture</b>	
<b>Теория</b>	
Onset of Deconfinement in Nucleus–Nucleus Collisions <i>M. Gaździcki, M. I. Gorenstein, P. Seyboth</i>	574
<b>Plenary Talks</b>	
<b>Эксперимент</b>	
NICA at JINR: New Prospects for Exploration of Quark–Gluon Matter <i>V. D. Kekelidze, A. D. Kovalenko, I. N. Meshkov, A. S. Sorin, G. V. Trubnikov</i> (for the NICA and MPD Collaborations)	585
Measuring Dynamical $K/\pi$ and $p/\pi$ Fluctuations in AuAu Collisions from the STAR Experiment <i>T. Tarnowski</i> (for the STAR Collaboration)	589
Beam Energy Dependence of Azimuthal Anisotropy at RHIC-PHENIX <i>A. Taranenko</i> (for the PHENIX Collaboration)	593
Evidence for the Onset of Deconfinement and Quest for the Critical Point by NA49 at the CERN SPS <i>G. L. Melkumov, T. Anticic, B. Baatar, D. Barna, J. Bartke, H. Beck, L. Betev, H. Białkowska, C. Blume, M. Bogusz, B. Boimska, J. Book, M. Botje, P. Bunčić, T. Cetner, P. Christakoglou, P. Chung, O. Chvala, J. G. Cramer, V. Eckardt, Z. Fodor, P. Foka, V. Friese, M. Gaździcki, K. Grebieszko, C. Höhne, K. Kadija, A. Karev, V. I. Kolesnikov, T. Kolleger, M. Kowalski, D. Kresan, A. Laszlo, R. Lacey, M. van Leeuwen, M. Mackowiak, M. Makariev, A. I. Malakhov, M. Mateg, M. Mitrovski, St. Mrówczyński, N. Nicolic, G. Palla, A. D. Planagiotou, W. Peryt, J. Pluta, D. Prindle, F. Pühlhofer, R. Renfordt, C. Roland, G. Roland, M. Rybczyński, A. Rybicki, A. Sandoval, N. Schmitz, T. Schuster, P. Seyboth, F. Siklér, E. Skrzypczak, M. Slodkowski, G. Stefanek, R. Stock, H. Ströbele, T. Susa, M. Szuba, M. Utvič, D. Varga, M. Vassiliou, G. I. Veres, G. Vestergombi, D. Vranić, Z. Włodarczyk, A. Wojtaszek-Szwarc</i> (for the NA49 Collaboration)	599
Methods to Study Event-By-Event Fluctuations in the NA61/SHINE Experiment at the CERN SPS <i>T. Cetner, K. Grebieszko</i> (for the NA61 Collaboration)	610

## System Size Dependence of Particle Production at the SPS

*C. Blume*

614

## Dilepton and Strangeness Production Probed with HADES

*A. Rustamov*

*(for the HADES Collaboration)*

619

## First Results from the ALICE Experiment

*I. Belikov*

*(for the ALICE Collaboration)*

623

## The CBM Experiment — a Status Report

*V. Friese*

628

## The HADES-at-FAIR project

*K. Lapidus, G. Agakishiev, A. Balanda, R. Bassini, C. Behnke, A. Belyaev, A. Blanco, M. Böhmer, P. Cabanelas, N. Carolino, J. C. Chen, S. Chernenko, J. Diaz, A. Dybczak, E. Epple, L. Fabbietti, O. Fateev, P. Finocchiaro, P. Fonte, J. Friese, I. Fröhlich, T. Galatyuk, J. A. Garzón, R. Gernhäuser, A. Gil, K. Göbel, M. Golubeva, D. González-Díaz, F. Guber, M. Gumberidze, S. Harabasz, K. Heidel, T. Heinz, T. Hennino, R. Holzmann, P. Huck, J. Hutsch, A. Jerusalemov, I. Iori, A. Ivashkin, M. Jurkovic, B. Kämpfer, M. Kajetanowicz, T. Karavicheva, I. Koenig, W. Koenig, B. W. Kolb, G. Korcyl, G. Kornakov, R. Kotte, A. Kozuch, E. Krebs, R. Krücken, H. Kuc, W. Kühn, A. Kugler, A. Kurepin, A. Kurilkin, P. Kurilkin, V. Ladygin, R. Lalik, J. S. Lange, M. Liu, T. Liu, L. Lopes, M. Lorenz, G. Lykasov, L. Maier, A. Malakhov, A. Mangiarotti, J. Markert, V. Metag, B. Michalska, J. Michel, C. Müntz, R. Münzer, L. Naumann, M. Palka, Y. Parpottas, V. Pechenov, O. Pechenova, A. Pereira, J. Pietraszko, W. Przygoda, B. Ramstein, C. Rehnisch, A. Reshetin, P. Rosier, A. Rustamov, A. Sadovsky, P. Salabura, T. Scheib, A. Schmah, H. Schuldes, E. Schwab, J. Siebenson, V. Smolyankin, M. Sobiella, Yu. G. Sobolev, S. Spataro, B. Spruck, H. Ströbele, J. Stroth, C. Sturm, A. Tarantola, K. Teilab, V. Tiflov, P. Tlusty, M. Traxler, R. Trebacz, A. Troyan, H. Tsertos, E. Usenko, T. Vasiliev, S. Visotski, V. Wagner, M. Weber, C. Wendisch, J. Wüstenfeld, S. Yurevich, Y. Zanevsky*

*(HADES Collaboration)*

632

## Status of NICA Project

*I. N. Meshkov*

637

## The Multi-Purpose Detector for NICA Heavy-Ion Collider at JINR

*O. V. Rogachevsky*

*(on behalf of MPD group)*

641

## Beam Energy Scan Program in RHIC — Experimental Approach to the QCD Phase Diagram

*G. Odyniec*

*(for the STAR Collaboration)*

645

## Теория

### The Chiral Magnetic Effect: Beam-Energy and System-Size Dependence

*V. D. Toneev, V. Voronyuk*

650

### Core Collapse Supernovae in the QCD Phase Diagram

*T. Fischer, D. Blaschke, M. Hempel, T. Klähn, R. Łastowiecki, M. Liebendörfer,*

*G. Martínez-Pinedo, G. Pagliara, I. Sagert, F. Sandin, J. Schaffner-Bielich, S. Typel*

656

Baryon Stopping as a Signal of the Mixed-Phase Onset	
<i>Yu. B. Ivanov</i>	664
Confining but Chirally Symmetric Dense and Cold Matter	
<i>L. Ya. Glozman</i>	670
Chiral Symmetry in Quarkyonic Matter	
<i>T. Kojo</i>	675
Chiral Thermodynamics of Dense Hadronic Matter	
<i>C. Sasaki</i>	680
$K^-$ and $\bar{p}$ Spectra for AuAu Collisions at $\sqrt{s} = 200$ GeV from STAR, PHENIX, and BRAHMS in Comparison to Core--Corona Model Predictions	
<i>C. Schreiber, K. Werner, J. Aichelin</i>	683
Strangeness and Onset of Deconfinement	
<i>F. Becattini</i>	689
<hr/>	
<b>Готовится к печати</b>	693
<hr/> <hr/>	