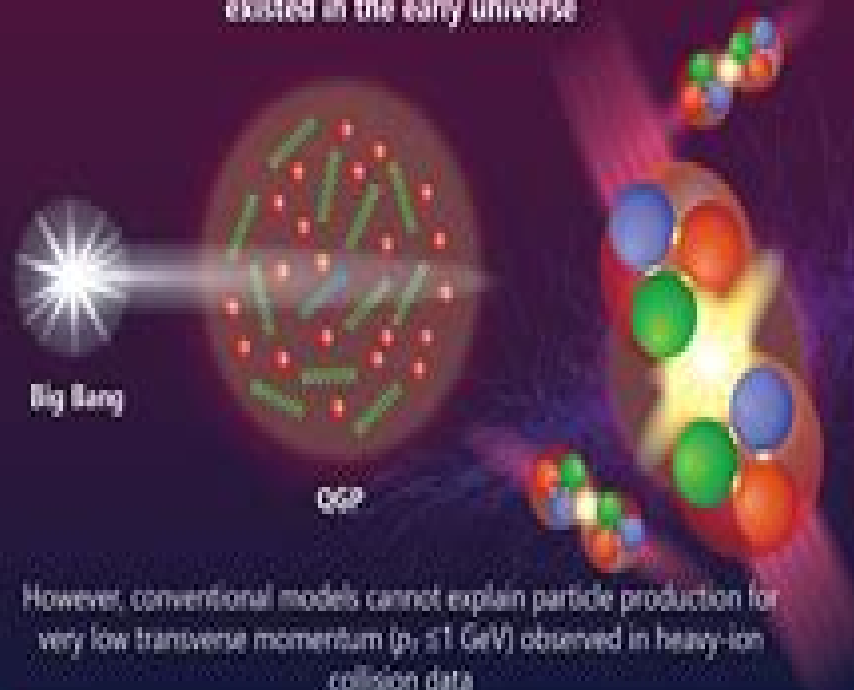


# Towards a More Accurate Theoretical Model of Quark-Gluon Plasma

Relativistic hydrodynamic models study the properties of quark-gluon plasma (QGP), a primordial state of matter that existed in the early universe



However, conventional models cannot explain particle production for very low transverse momentum ( $p_T \lesssim 1$  GeV) observed in heavy-ion collision data

Can we find a model that explains the missing particle yield in the region of low transverse momentum?

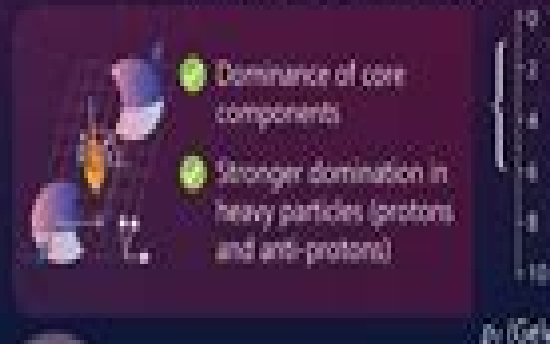
Simulating Pb-Pb ion collisions using a novel dynamical core-corona initialization framework



## Analyses

- Contribution from core and corona components
- Quantification of corona contribution
- Effect of corona component on flow observables

## Transverse momentum spectra for 0-5% centrality class



- Significant corona components in  $p_T \lesssim 1$  GeV
- Larger in heavy particle spectra (~50% at  $p_T = 0$  GeV)



## Four-particle cumulants for charged hadrons

Corona contribution dilutes absolute value of  $c_4\{4\}$  solely from core contribution

Particle yields in the very low  $p_T$  spectra can be explained by factoring in the contribution of the nonequilibrium "corona" component in heavy-ion collisions

# Quark Gluon Plasma

**Jean Letessier, Johann Rafelski**



## **Quark Gluon Plasma:**

**The Physics of the Quark-Gluon Plasma** Sourav Sarkar, Helmut Satz, Bikash Sinha, 2009-12-16 The aim of this book is to offer to the next generation of young researchers a broad and largely self contained introduction to the physics of heavy ion collisions and the quark gluon plasma providing material beyond that normally found in the available textbooks For each of the main aspects QCD thermodynamics and global features of the QGP collision hydrodynamics electromagnetic probes jet and quarkonium production color glass condensate and the gravity connection the present volume provides extensive and pedagogical lectures surveying the present status of both theory and experiment A particular feature of this volume is that all lectures have been written with the active assistance of selected students present at the course in order to ensure the adequate level and coverage for the intended readership Quark-Gluon Plasma Kohsuke Yagi, Tetsuo Hatsuda, Yasuo

Miake, 2005-12-15 Quark Gluon Plasma introduces the primordial matter composed of two types of elementary particles created at the time of the Big Bang During the evolution of the universe Quark Gluon Plasma QGP undergoes a transition to hadronic matter governed by quantum chromodynamics the law of strong interactions After an introduction to gauge theories various aspects of quantum chromodynamic phase transitions are illustrated in a self contained manner The cosmological approach and renormalization group are discussed as well as the cosmological and astrophysical implications of QGP on the basis of Einstein's equations Recent developments towards the formation of QGP in ultrarelativistic heavy ion collisions are also presented in detail This text is suitable as an introduction for graduate students as well as providing a valuable reference for researchers already working in this and related fields It includes eight appendices and over a hundred exercises Quark-gluon Plasma, Heavy Ion Collisions And Hadrons Edward V Shuryak, 2024-02-28 This third book on Quark Gluon plasma and heavy ion collisions follows the previous ones published in 1988 and 2005 that described theoretical proposals for a large program and then the QGP discovery at RHIC The present one describes the rather mature field with extensive program at RHIC and LHC colliders and corresponding theory QGP turns out to be a strongly coupled medium made up of quarks and gluons existing in exploding fireballs It is the hottest form of matter created in a laboratory Other subjects discussed in the book are QCD vacuum structure including topological solitons and nonperturbative phenomena It also includes some recent progress in theory of hadrons bridging hadronic spectroscopy with partonic observables

**Quark-gluon Plasma 2** Rudolph C Hwa, 1995-11-16 This is a sequel to the review volume Quark Gluon Plasma There are 13 articles contributed by leading investigators in the field covering a wide range of topics about the theoretical approach to the subject These contributions are timely reviews of nearly all the actively pursued problems written in a pedagogical style suitable for beginners as well as experienced researchers Quark-gluon Plasma 4 Rudolph C Hwa, Xin-nian Wang, 2010-02-09 This is a review volume containing articles written by experts on current theoretical topics in the subject of Quark Gluon Plasma created in heavy ion collisions at high energy It is the fourth volume in the series with the same title

sequenced numerically The articles are written in a pedagogical style so that they can be helpful to a wide range of researchers from graduate students to mature physicists who have not worked previously on the subject A reader should be able to learn from the reviews without having extensive knowledge of the background literature **Quark--Gluon Plasma**

**3** Rudolph C. Hwa,Xin-Nian Wan,2004 Annotation Text reviews the major topics in Quark Gluon Plasma including the QCD phase diagram the transition temperature equation of state heavy quark free energies and thermal modifications of hadron properties Includes index references and appendix For researchers and practitioners **Quark Gluon Plasma** Jajati

Nayak,Sourav Sarkar,Tapan Nayak,2014-09-30 Quark Gluon Plasma Tapan K. Nayak,Sarkar, Sourav,2014-11-30 At extremely high temperatures and densities protons and neutrons may dissolve into a soup of quarks and gluons called the Quark Gluon Plasma QGP For a few microseconds shortly after the Big Bang the Universe was filled with the QGP matter The search and study of Quark Gluon Plasma QGP is one of the most fundamental research topics of our times The QGP matter has been probed by colliding heavy ions at the Relativistic Heavy Ion Collider at Brookhaven National Laboratory New York and the Large Hadron Collider at CERN Geneva By colliding heavy ions at a speed close to that of light scientists aim to obtain albeit over a tiny volume of the size of a nucleus and for an infinitesimally short instant a QGP state This QGP state can be observed by dedicated experiments as it reverts to hadronic matter through expansion and cooling This volume presents some of the current theoretical and experimental understandings in the field of QGP *Quark-Gluon Plasma:*

*Theoretical Foundations* J. Kapusta,B. Müller,J. Rafelski,2003-11-25 The purpose of this volume is to trace the development of the theoretical understanding of quark gluon plasma both in terms of the equation of state and thermal correlation functions and in terms of its manifestation in high energy nuclear collisions Who among us has not wondered how tall a mountain is on a neutron star what happens when matter is heated and compressed to higher and higher densities what happens when an object falls into a black hole or what happened eons ago in the early universe The study of quark gluon plasma is related in one way or another to these and other thought provoking questions Oftentimes the most eloquent exposition is given in the original papers To this end a selection is made of what are the most important pioneering papers in this field The early 1950s was an era when high energy multiparticle production in cosmic ray interactions attracted the attention of some of the brightest minds in physics and so it should be no surprise that the first reprinted papers deal with the introduction of statistical models of particle production The quark model arose in the 1960s while QCD as such was recognized as the theory of the strong interactions in the 1970 s The behavior of matter at high temperatures and supranuclear densities became of wide interest in the nuclear and particle physics communities starting in the 1970s which is when the concept of quark gluon plasma became established The history of the field has been traced up to the early 1990s There are three reasons for stopping at that point in time First most of the key theoretical concepts and formalisms arose before 1993 although many of them continue to be developed today and hopefully well into the future Second papers written after 1992 are much more

readily available than those written before due to the advent of the World Wide Web and its electronic preprint databases and journals Finally in making this collection of reprints available as hardcopy one is limited in the number of pages and some papers in the present selection should have been deleted in order to make room for post 1993 papers For the same reason the subject focus must of necessity be limited which means that in this reprint collection two wide subject areas are not addressed the behavior of nuclear matter under extreme conditions is not reported nor is quark matter in neutron stars The broad categories into which the material has been placed reflect the diverse studies of quark gluon plasma and its manifestation They are phase space models of particle production perturbative QCD plasma lattice gauge theory fluid dynamics and flow strangeness heavy flavor charm electromagnetic signals parton cascade and minijets parton energy loss and jet quenching Hanbury Brown Twiss HBT interferometry disoriented chiral condensates phase transition dynamics and cosmology and color superconductivity Each chapter is prefaced by an introduction which contains a list of significant papers which is more complete than the reprinted papers though by no means exhaustive It also contains citations to most relevant papers published up to the date of completion of this volume fall 2002 It is hoped that the short reviews will help bring the reader up to date on the latest developments The selection of papers cited in each chapter and in particular the ones selected for reprinting is solely the responsibility of the Editors It is based on their best judgement and experience in this field dating back to the mid 1970s In order to be reprinted a paper must have been pioneering in the sense of originality and impact on the field Generally they have been cited over a hundred times by other papers published in refereed journals The final selection was reviewed and discussed among the Editors repeatedly Just because a paper is not included does not mean they do not know of it or do not have a high regard for it All of the papers cited or reprinted are original research contributions There are three other types of publications listed The first is a compilation of books The second is a list of reviews many of which contain a significant amount of original material The third is a list of the proceedings of the series of Quark Matter meetings the primary series of international conferences in this field that is attended by both theorists and experimentalists

**The Physics of the Quark-Gluon Plasma** Berndt Müller,1985-03      **Quark-gluon Plasma 5** Xin-nian

Wang,2016-01-21 This is the fifth volume in the series on the subject of quark gluon plasma a unique phase created in heavy ion collisions at high energy It contains review articles by the world experts on various aspects of quark gluon plasma taking into account the advances driven by the latest experimental data collected at both the Relativistic Heavy Ion Collider RHIC and the Large Hadron Collider LHC The articles are pedagogical and comprehensive which can be helpful for both new researchers entering the field as well as the experienced physicists working on the subject      **Study of Quark Gluon**

**Plasma By Particle Correlations in Heavy Ion Collisions** Li Yi,2016-08-25 This thesis covers several important topics relevant to our understanding of quark gluon plasma It describes measurement of the third order harmonic flow using two particle correlations and isolation of flow and non flow contributions to particle correlations in gold gold collisions The work

also investigates long range longitudinal correlations in small systems of deuteron gold collisions The former is related to the hydrodynamic transport properties of the quark gluon plasma created in gold gold collisions The latter pertains to the question whether hydrodynamics is applicable to small systems such as deuteron gold collisions and whether the quark gluon plasma can be formed in those small system collisions The work presented in this thesis was conducted with the STAR experiment at the Relativistic Heavy Ion Collider at Brookhaven National Laboratory where the center of mass energy of both collision systems was a factor of 100 larger than the rest mass of the colliding nuclei The results contained in this thesis are highly relevant to our quest for deeper understanding of quantum chromodynamics The results obtained challenge the interpretation of previous works from several other experiments on small systems and provoke a fresh look at the physics of hydrodynamics and particle correlations pertinent to high energy nuclear collisions

### **Quark-gluon Plasma Five**, 2016

This is the fifth volume in the series on the subject of quark gluon plasma a unique phase created in heavy ion collisions at high energy It contains review articles by the world experts on various aspects of quark gluon plasma taking into account the advances driven by the latest experimental data collected at both the Relativistic Heavy Ion Collider RHIC and the Large Hadron Collider LHC The articles are pedagogical and comprehensive which can be helpful for both new researchers entering the field as well as the experienced physicists working on the subject

*Physics and Astrophysics of Quark-gluon Plasma* Sibaji Raha, 1988

### **Physics of the quark-gluon plasma and relativistic heavy-ion collisions** International

School on Physics of the Quark Gluon Plasma, Workshop on Physics of Relativistic Heavy Ion Collisions, 1997

*Hadrons and*

*Quark-Gluon Plasma* Jean Letessier, Johann Rafelski, 2023-02-09 This 2002 monograph now reissued as OA explores the primordial state of hadronic matter called quark gluon plasma

### **Quark-gluon Plasma**, 1990

*Quark-gluon Plasma 6*

Xin-nian Wang, 2025-02-27 This book the sixth volume in a series on Quark Gluon Plasma QGP research offers updated reviews on theoretical developments and phenomenological understanding of the hot and dense matter formed in high energy heavy ion collisions Authored by leading experts in the field it delves into how these advancements help shed light on the recent data emerging from the experiments conducted at the Relativistic Heavy Ion Collider RHIC and the Large Hadron Collider LHC Despite setbacks caused by the COVID 19 pandemic the book explores a multitude of recent progresses including insights into jet measurements study of hydrodynamization in QGP flow measurements in large and small systems spin polarization and chiral magnetic effect in relativistic heavy ion collisions Additionally the book features a timely review of the QCD phase diagram in light of the new data collected at the Beam Energy Scan program at RHIC Furthermore it includes a chapter on the growing role of machine learning in analyzing and interpreting complex data Written carefully with detailed analyses and expert reviews Quark Gluon Plasma 6 stands as an invaluable reference for individuals engaged in the field

*Quark-gluon Plasma And Heavy Ion Collisions: Procs Of A Meeting Held In The Framework Of The Activities Of*

*Giselda, The Italian Working Group On Strong Interactions* Wanda Maria Alberico, Maria-paola Lombardo, Marzia

Nardi,2002-09-23 This book offers the unique possibility of tackling the problem of hadronic deconfinement from different perspectives After general introductions to the physical issues from both the theoretical and the experimental point of view the book presents the most recent expertise on field theory approaches to the QCD phase diagram many body techniques and applications the dynamics of phase transitions and phenomenological analysis of relativistic heavy ion collisions One of the major goals of this book is to promote interchange among those fields of research which have traditionally been cultivated by different communities of physicists The contributions in the book help in obtaining deep comprehension of this new state of matter a system of deconfined quarks and gluons At the same time the book offers a few examples of how the seeds of the deconfined state are looked for in the phenomenological analysis of the observables measured in relativistic heavy ion collisions The main topics are dealt with in a pedagogical style suitable for beginners as well as experienced researchers

*Quark-Gluon Plasma, Heavy Ion Collisions and Hadrons* Edward V Shuryak,2024-03-23 This third book on Quark Gluon plasma and heavy ion collisions follows the previous ones published in 1988 and 2005 that described theoretical proposals for a large program and then the QGP discovery at RHIC The present one describes the rather mature field with extensive program at RHIC and LHC colliders and corresponding theory QGP turns out to be a strongly coupled medium made up of quarks and gluons existing in exploding fireballs It is the hottest form of matter created in a laboratory Other subjects discussed in the book are QCD vacuum structure including topological solitons and nonperturbative phenomena It also includes some recent progress in theory of hadrons bridging hadronic spectroscopy with partonic observables

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## Table of Contents Quark Gluon Plasma

1. Understanding the eBook Quark Gluon Plasma
  - The Rise of Digital Reading Quark Gluon Plasma
  - Advantages of eBooks Over Traditional Books
2. Identifying Quark Gluon Plasma
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Quark Gluon Plasma
  - User-Friendly Interface
4. Exploring eBook Recommendations from Quark Gluon Plasma
  - Personalized Recommendations
  - Quark Gluon Plasma User Reviews and Ratings
  - Quark Gluon Plasma and Bestseller Lists
5. Accessing Quark Gluon Plasma Free and Paid eBooks
  - Quark Gluon Plasma Public Domain eBooks
  - Quark Gluon Plasma eBook Subscription Services
  - Quark Gluon Plasma Budget-Friendly Options
6. Navigating Quark Gluon Plasma eBook Formats
  - ePub, PDF, MOBI, and More
  - Quark Gluon Plasma Compatibility with Devices
  - Quark Gluon Plasma Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Quark Gluon Plasma
  - Highlighting and Note-Taking Quark Gluon Plasma
  - Interactive Elements Quark Gluon Plasma
8. Staying Engaged with Quark Gluon Plasma

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Quark Gluon Plasma
9. Balancing eBooks and Physical Books Quark Gluon Plasma
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Quark Gluon Plasma
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Quark Gluon Plasma
- Setting Reading Goals Quark Gluon Plasma
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Quark Gluon Plasma
- Fact-Checking eBook Content of Quark Gluon Plasma
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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