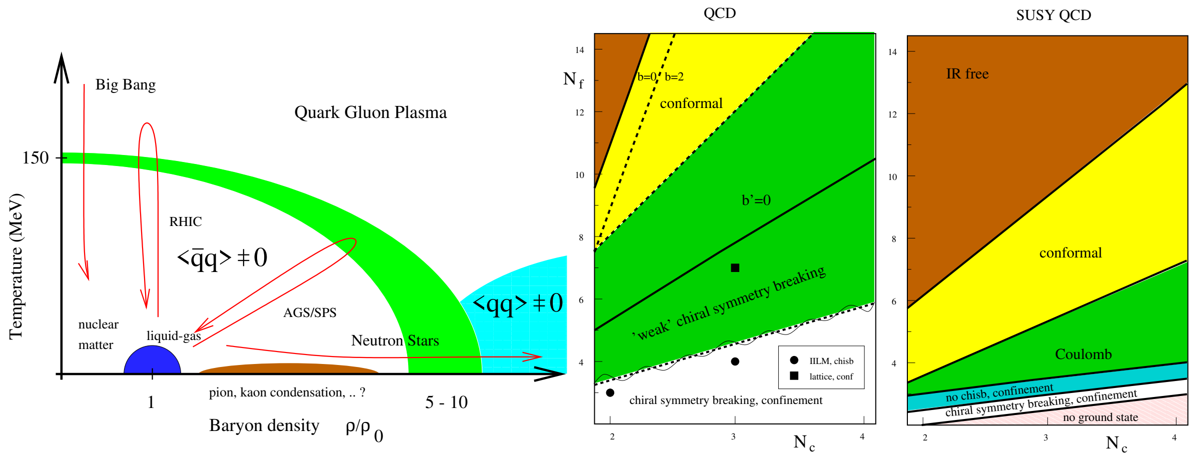
Phase Transitions in QCD

November 4-7, 1998.

A RIKEN BNL Research Center Workshop

Brookhaven National Laboratory
Upton, NY, USA



The Workshop 'Phase Transitions in QCD' will be held at the RIKEN BNL Research Center, located at Brookhaven National Lab, from November 4 to 7, 1998.

The purpose of the workshop is to discuss the phase structure of QCD and related theories. We will focus on the phase transitions that are expected to occur as a function of temperature, chemical potential, the number (and masses) of flavors, and other parameters. We would like to review what is known from general arguments, analytical approaches, and the lattice, and discuss possible avenues for future research. Recent advances in unravelling the phase structure of supersymmetric gauge theories and the possible impliactions of these results for QCD will also be discussed. Finally, we would like to discuss the possible dynamical mechanisms common to some (or all) of these transitions.

The Workshop will consist of invited plenary talks, shorter talks by participants, and discussion sessions on key topics.

Organizers: Thomas Schaefer (INT, Seattle) and Edward Shuryak (Stony Brook)

Invited Speakers

- T. Appelquits, Yale
- N. Christ, Columbia*
- D. Diakonov, Nordita
- P. de Forcrand, Zurich*
- T. de Grand, Colorado*
- C. de Tar, Utah*
- F. Karsch, Bielefeld
- J. Kogut, Illinois*
- M. Mattis, Los Alamos
- J. Negele, MIT*
- K. Rajagopal, MIT
- M. Shifman, Minnesota
- M. Strassler, Princeton*
- F. Wilzcek, Princeton

* to be confirmed

Proceedings: As for previous RIKEN/BNL workshops, the proceedings will be prepared quickly and consists of copies of selected transparencies. For this purpose, it is necessary for each speaker to supply a few (at most six) of your transparencies that outline the main points of the talk.

Support: We will provide housing and local expences for all participants (apply soon!). Travel expenses can covered only in some cases (invited speakers,..).

To apply to the workshop, you can go to the online registration form (as soon as it becomes available) or send the registration form to one of the organizers:

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Other information about travel, etc., is also available from the RIKEN BNL Research Center home page `http://penguin.phy.bnl.gov/www/riken.html/workshops.html`.