



# A Short Course on Relativistic Heavy-Ion Collisions (IOP Expanding Physics)

*Asis Kumar Chaudhuri*

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This text introduces the subject of relativistic high-energy heavy-ion collisions and in particular, the subject of the quark-gluon plasma (QGP). Starting with a conceptual basis for QGP formation in heavy-ion collisions, the author then proceeds to provide a more rigorous foundation by introducing gauge theory, QCD and lattice QCD. These topics are introduced briefly but with sufficient coverage that the reader can comprehend their applications in heavy-ion collisions. Two-particle correlation (Hanbury-Brown-Twiss) method and recent advances in hydrodynamical modelling, including event-by-event hydrodynamics are also discussed, bringing the coverage up to the leading areas of current research.

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