

1. Record Nr.	UNISA996466796103316
Titolo	Global Structure and Evolution in General Relativity [[electronic resource] ] : Proceedings of the First Samos Meeting on Cosmology, Geometry and Relativity Held at Karlovassi, Samos, Greece, 5–7 September 1994 // edited by Spiros Cotsakis, Gary W. Gibbons
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1996
ISBN	3-540-49361-1
Edizione	[1st ed. 1996.]
Descrizione fisica	1 online resource (IX, 173 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 460
Disciplina	530.1/1
Soggetti	Gravitation Mathematical physics Differential geometry Observations, Astronomical Astronomy—Observations Astrophysics Geophysics Classical and Quantum Gravitation, Relativity Theory Theoretical, Mathematical and Computational Physics Differential Geometry Astronomy, Observations and Techniques Astrophysics and Astroparticles Geophysics/Geodesy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Yang-Mills plasmas -- Relativistic fluids and gravitational collapse -- The einstein vacuum constraints and trapped surfaces -- Black hole collisions, analytic continuation and cosmic censorship -- The structure of quantum conformal superspace.
Sommario/riassunto	The five lectures presented in this volume address very timely mathematical problems in relativity and cosmology. Part I is devoted to the initial value and evolution problems of the Einstein equations.

Especially it deals with the Einstein-Yang-Mills-Boltzmann system, fluid models with finite or infinite conductivity, global evolution of a new (two-phase) model for gravitational collapse and the structure of maximal, asymptotically flat, vacuum solutions of the constraint equations which have the additional property of containing trapped surfaces. Part II focuses on geometrical-topological problems in relativity and cosmology: on the role of cosmic censorship for the global structure of the Einstein-Maxwell equations and on the mathematical structure of quantum conformal superspace.

---