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Altri autori (Persone)	BaroneMichele
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	CONTENTS ; Preface ; Advanced Miniaturized Detectors and Particle Identification ; A Novel Micromegas Detector for In-core Nuclear Reactor Neutron Flux Measurements ; The ALICE TPC ; The ATLAS RPC Test Stands Performances in High Magnetic Fields of Fine-mesh Photomultipliers for Fast Time-of-flight Detectors Recent Results on GridPix Detectors: An Integrated Micromegas Grid and a Micromegas Ageing Test ; RICH Detector at Jefferson Lab Design Performance and Physics Results Hybrid-Photon-Detectors in the LHCb RICH System Development of a Fast Transition Radiation and Tracking Detector for CBM at FAIR ;

R&D on a Detector for Very High Momentum Charged Hadron Identification in ALICE
; The Design and Test of the ATLAS Diamond Beam Conditions Monitor
The AMS02 Transition Radiation Detector (TRD) - A Gasfilled Detector for the International Space Station
A New Automatic Microscope for High Speed Analysis of Nuclear Emulsions ; A Novel Type of Proximity Focusing RICH Counter with Multiple Refractive Index Aerogel Radiator
A Subminiature Scintillation Detector for Catheter Operation
Analysis of Test-beam Data from a Prototype LHCb RICH Detector
; Single Crystal CVD Diamond Detectors for Hadron Physics
; Improvement of Particle Identification by Energy Loss in a Stack of Silicon Detectors
Studies for a Fast RICH

Sommario/riassunto

The exploration of the subnuclear world is done through increasingly complex experiments covering a wide range of energies and in a large variety of environments - from particle accelerators, underground detectors to satellites and space laboratories. For these research programs to succeed, novel techniques, new materials and new instrumentation need to be used in detectors, often on a large scale. Hence, particle physics is at the forefront of technological advancement and leads to numerous applications. Among these, medical applications have a particular importance due to the health and soc
