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Titolo	Capitale umano e mezzogiorno : i nuovi termini della questione meridionale / a cura di Renato Brunetta e Leonello Tronti
Pubbl/distr/stampa	Bologna, : Il mulino, 1994
ISBN	88-15-04758-1
Descrizione fisica	477 p. ; 22 cm
Collana	Temi e discussioni
Disciplina	306.309457
Soggetti	Economia - Italia meridionale
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2. Record Nr.	UNINA9910337877003321
Autore	Marzani Simone
Titolo	Looking Inside Jets : An Introduction to Jet Substructure and Boosted-object Phenomenology / / by Simone Marzani, Gregory Soyez, Michael Spannowsky
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-15709-1
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XI, 205 p. 67 illus., 64 illus. in color.)
Collana	Lecture Notes in Physics, , 1616-6361 ; ; 958
Disciplina	522.682
Soggetti	Elementary particles (Physics) Quantum field theory Nuclear physics Measurement Measuring instruments Particle accelerators Elementary Particles, Quantum Field Theory Nuclear Physics Measurement Science and Instrumentation Accelerator Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction and Motivation -- Introduction to QCD and Events at Hadron Colliders -- Experimental aspects -- Jets and Sequential Jet Algorithms -- Calculations for jets -- Groomers and Taggers -- Calculations for jet substructure -- Searches and Measurements with jet substructure -- Summary.
Sommario/riassunto	This concise primer reviews the latest developments in the field of jets. Jets are collinear sprays of hadrons produced in very high-energy collisions, e.g. at the LHC or at a future hadron collider. They are essential to and ubiquitous in experimental analyses, making their study crucial. At present LHC energies and beyond, massive particles around the electroweak scale are frequently produced with transverse momenta that are much larger than their mass, i.e., boosted. The decay

products of such boosted massive objects tend to occupy only a relatively small and confined area of the detector and are observed as a single jet. Jets hence arise from many different sources and it is important to be able to distinguish the rare events with boosted resonances from the large backgrounds originating from Quantum Chromodynamics (QCD). This requires familiarity with the internal properties of jets, such as their different radiation patterns, a field broadly known as jet substructure. This set of notes begins by providing a phenomenological motivation, explaining why the study of jets and their substructure is of particular importance for the current and future program of the LHC, followed by a brief but insightful introduction to QCD and to hadron-collider phenomenology. The next section introduces jets as complex objects constructed from a sequential recombination algorithm. In this context some experimental aspects are also reviewed. Since jet substructure calculations are multi-scale problems that call for all-order treatments (resummations), the bases of such calculations are discussed for simple jet quantities. With these QCD and jet physics ingredients in hand, readers can then dig into jet substructure itself. Accordingly, these notes first highlight the main concepts behind substructure techniques and introduce a list of the main jet substructure tools that have been used over the past decade. Analytic calculations are then provided for several families of tools, the goal being to identify their key characteristics. In closing, the book provides an overview of LHC searches and measurements where jet substructure techniques are used, reviews the main take-home messages, and outlines future perspectives.
