

1. Record Nr.	UNISA996390180603316
Autore	Vincent Thomas <1634-1678.>
Titolo	An explicatory catechism: or, An explanation of the assemblies shorter catechism [[electronic resource]] : Wherein those principles are enlarged upon especially, which obviate the great and growing errors of Popery; useful for those families that desire to hold fast the form of sound words
Pubbl/distr/stampa	London, : printed for Henry Mortlock at the Phœnix in St. Paul's Church-yard; and White-Hart in Westminster Hall, 1675
Descrizione fisica	[16], 287, [1] p
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	In question and answer form. Copy tightly bound with slight loss of print; some print fade. Reproduction of the original in the Bodleian Library, Oxford.
Sommario/riassunto	eebo-0014

2. Record Nr.	UNISA996418440203316
Autore	Mizera Sebastian
Titolo	Aspects of scattering amplitudes and moduli space localization // Sebastian Mizera
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] ©2020
ISBN	3-030-53010-8
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XVII, 134 p. 18 illus., 14 illus. in color.)
Collana	Springer Theses
Disciplina	515.37
Soggetti	Differential forms Riemann surfaces Geometry, Differential
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter1: Introduction -- Chapter2: Intersection Numbers of Twisted Differential Forms -- Chapter3: Recursion Relations from Braid Matrices -- Chapter4: Further Examples of Intersection Numbers -- Chapter5: Conclusion.
Sommario/riassunto	This thesis proposes a new perspective on scattering amplitudes in quantum field theories. Their standard formulation in terms of sums over Feynman diagrams is replaced by a computation of geometric invariants, called intersection numbers, on moduli spaces of Riemann surfaces. It therefore gives a physical interpretation of intersection numbers, which have been extensively studied in the mathematics literature in the context of generalized hypergeometric functions. This book explores physical consequences of this formulation, such as recursion relations, connections to geometry and string theory, as well as a phenomenon called moduli space localization. After reviewing necessary mathematical background, including topology of moduli spaces of Riemann spheres with punctures and its fundamental group, the definition and properties of intersection numbers are presented. A comprehensive list of applications and relations to other objects is given, including those to scattering amplitudes in open- and closed-string theories. The highlights of the thesis are the results regarding

localization properties of intersection numbers in two opposite limits: in the low- and the high-energy expansion. In order to facilitate efficient computations of intersection numbers the author introduces recursion relations that exploit fibration properties of the moduli space. These are formulated in terms of so-called braid matrices that encode the information of how points braid around each other on the corresponding Riemann surface. Numerous application of this approach are presented for computation of scattering amplitudes in various gauge and gravity theories. This book comes with an extensive appendix that gives a pedagogical introduction to the topic of homologies with coefficients in a local system.
