1. Record Nr. UNINA9910300109803321

Autore	Li Wen-Wei
Titolo	Zeta Integrals, Schwartz Spaces and Local Functional Equations / / by Wen-Wei Li
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-030-01288-3
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (VIII, 141 p. 30 illus., 2 illus. in color.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 2228
Disciplina	515.75 515.56
Soggetti	Topological groups Lie groups Harmonic analysis Number theory Topological Groups, Lie Groups Abstract Harmonic Analysis Number Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Geometric Background -- Analytic Background -- Schwartz Spaces and Zeta Integrals -- Convergence of Some Zeta Integrals -- Prehomogeneous Vector Spaces -- The Doubling Method -- Speculation on the Global Integrals.
Sommario/riassunto	This book focuses on a conjectural class of zeta integrals which arose from a program born in the work of Braverman and Kazhdan around the year 2000, the eventual goal being to prove the analytic continuation and functional equation of automorphic L-functions. Developing a general framework that could accommodate Schwartz spaces and the corresponding zeta integrals, the author establishes a formalism, states desiderata and conjectures, draws implications from these assumptions, and shows how known examples fit into this framework, supporting Sakellaridis' vision of the subject. The collected results, both old and new, and the included extensive bibliography, will be valuable to anyone who wishes to understand this program, and to

those who are already working on it and want to overcome certain frequently occurring technical difficulties.