

1. Record Nr.	UNINA9910788661503321
Titolo	The ubiquitous heat kernel : AMS Special Session, The Ubiquitous Heat Kernel, October 2-4, 2003, Boulder, Colorado / / Jay Jorgenson, Lynne Walling, editors
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2006] ©2006
ISBN	0-8218-7988-X 0-8218-5730-4
Descrizione fisica	1 online resource (410 p.)
Collana	Contemporary mathematics, , 0271-4132 ; ; 398
Disciplina	515/.353
Soggetti	Heat equation Lie groups Jacobi forms Geometry, Algebraic Operator theory Global differential geometry Spectral theory (Mathematics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Contents""; ""Preface""; ""Positivity of zeta distributions and small unitary representations""; ""The heat equation and representations of the Jacobi group""; ""Kato's inequality and asymptotic spectral properties for discrete magnetic Laplacians""; ""The heat kernel in low-dimensional quantum theories""; ""Heat kernels on weighted manifolds and applications""; ""1. Introduction""; ""2. The Laplace operator""; ""2.1 Differential operators on manifolds""; ""2.2 Laplacian as an operator in L^2 ""; ""2.3 Some examples""; ""2.4 Laplacian on model manifolds""; ""3. The heat kernel"" ""3.1 Heat semigroup""""3.2 Heat kernel and fundamental solutions""; ""3.3 Stochastic completeness""; ""4. Relations between different heat kernels""; ""4.1 Direct products""; ""4.2 Isometries""; ""4.3 Comparison of heat kernels""; ""4.4 Change of measure""; ""4.5 Some examples of heat kernels in R^n ""; ""4.6 Hyperbolic spaces""; ""5. Heat kernel

estimates""; ""5.1 Uniform Faber-Krahn inequality""; ""5.2 Gaussian upper bounds""; ""5.3 On-diagonal lower bounds""; ""5.4 Relative Faber-Krahn inequality""; ""5.5 On-diagonal estimates on model manifolds""
""The heat kernel on the symmetric space $SL(n, F)/SU(n, F)$ ""
