

1. Record Nr.	UNINA9910346943203321
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Titolo	Heat kernel estimates and L^p -spectral theory of locally symmetric spaces
Pubbl/distr/stampa	KIT Scientific Publishing, 2007
ISBN	1000005774
Descrizione fisica	1 online resource (XII, 94 p. p.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	In this work we derive upper Gaussian bounds for the heat kernel on locally symmetric spaces of non-compact type. Furthermore, we determine explicitly the L^p -spectrum of locally symmetric spaces M whose universal covering is a rank one symmetric space of non-compact type if either the fundamental group of M is small (in a certain sense) or if the fundamental group is arithmetic and M is non-compact.