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			authors	• Amy DeCelles	DUPLICATES	1339
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	id	id2926402585987525659	**abstract**	We extract an exact formula relating the number of lattice points in an expanding region of a complex semi-simple symmetric space and the automorphic spectrum from a spectral identity, which is obtained by producing two expressions for the automorphic fundamental solution of the invariant differential operator (Delta - lambda_z)^N. On one hand, we form a Poincare series from the solution to the corresponding differential equation on the free space G/K, which is obtained using the harmonic analysis of bi-K-invariant functions. On the other hand, a suitable global automorphic Sobolev theory, developed in this paper, enables us to use the harmonic analysis of automorphic forms to produce a solution in terms of the automorphic spectrum.		
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