

HARMONIC AND SPECTRAL ANALYSIS

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Invariant function algebras on Hermitian symmetric domains with boundary

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We consider the algebra of continuous functions on a Hermitian symmetric domain with boundary and aim to classify group invariant subalgebras. The meta-theorem is that all such subalgebras are encoded by complex structure in the interior and by topological stratification of the boundary. The heuristic approach is to use the action of the group of symmetries to show that the sets of anti-symmetry of a candidate invariant algebra are few and readily classified.