

UNITARILY INVARIANT VALUATIONS ON CONVEX FUNCTIONS

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I will present a characterization of all continuous, dually epi-translation invariant valuations on the space of finite-valued convex functions that are invariant under the unitary group. Every such valuation may be represented uniquely as a sum of functional versions of the hermitian intrinsic volumes. Moreover, these functionals admit an integral representation with respect to a family of certain measure-valued valuations that includes the real and complex Monge-Ampère operator.