Symmetries of structures on positive definite cones in $C^*$-algebras

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In this talk we give a survey of our recent works on different 'symmetries' of structures (algebraic and geometric) on positive definite cones in $C^*$-algebras. Among others, we present precise descriptions of various algebraic isomorphisms, mean preservers, surjective isometries, preservers of relative entropy related quantities, etc.