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*Expressing the distance of unitary orbits of positive elements in terms of the Cuntz semigroup*

In (arXiv:0707.2220), A. Ciuperca and G. Elliott have studied, for positive elements of a  $C^*$ -algebra of stable rank one, the relation between the usual distance (call it  $d$ ) of unitary orbits and a notion of “Weyl distance” (call it  $d_W$ ) expressed in terms of the Cuntz semigroup. Specifically, they established the double inequality

$$\frac{1}{8}d \leq d_W \leq d.$$

This talk will focus on establishing the equality  $d = d_W$  for a certain class of ASH algebras of stable rank one, including the Jiang–Su algebra and AT algebras.