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**$C^*$ -Algebras with approximate  $n$ -th root property**

We are investigating commutative and non-commutative  $C^*$ -algebras having the (approximate)  $n$ -th root property. In particular, we show the existence of a commutative (resp., non-commutative) unital  $C^*$ -algebra  $X$  such that  $X$  has the approximate  $n$ -th root property and any other commutative (resp., arbitrary) separable unital  $C^*$ -algebra with the approximate  $n$ -th root property is a quotient of  $X$ .