

## The semigroup generated by a unitary orbit

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The unitary orbit of a complex  $n \times n$  matrix  $A$  is the set

$$\{U^*AU \mid U \text{ unitary}\}.$$

We investigate the structure of the multiplicative semigroup generated by the unitary orbit of a matrix.

This is a joint work with H. RADJAVI (University of Waterloo).