

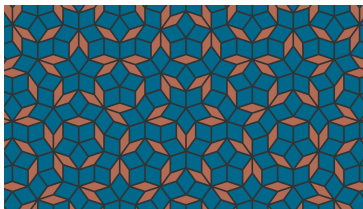
# Exact results on electronic wavefunctions of 2D quasicrystals

Nicolas Macé<sup>1</sup>, Anuradha Jagannathan<sup>1</sup>, Pavel Kalugin<sup>1</sup>, Rémy Mosseri<sup>2</sup>, Frédéric Piéchon<sup>1</sup>

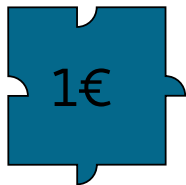
<sup>1</sup>Laboratoire de Physique des Solides, *Université Paris-Saclay*

<sup>2</sup>LPTMC, *Université Pierre et Marie Curie*

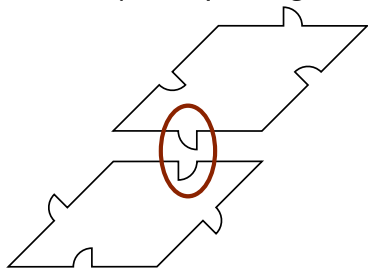
June 20, 2017



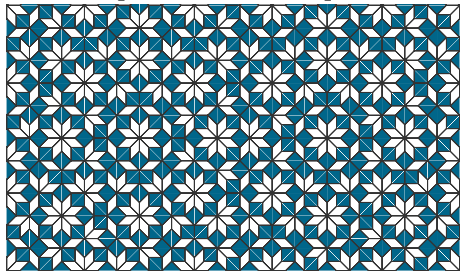
## A PUZZLE



Pay the squares, get the rhombuses for free! [Bédaride *et al.*12]



Forbidden configuration.



Patch of the Ammann-Beenker tiling.