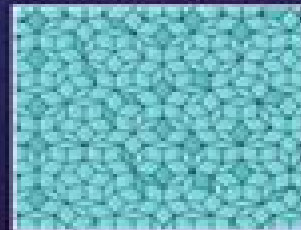
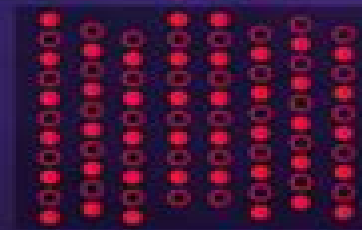


# Bridging the Gap Between Quasicrystals and Incommensurate Modulated Structures

Quasicrystals (QCs) and incommensurate (IC) modulated structures are two types of aperiodic crystals that have long-range order without lattice translational symmetry



QCs  
✓ Ordered  
✓ Non-periodic structure



IC modulated structures  
✓ IC modulation superimposed on the basic crystal lattice

However, the relationship between these two classes of materials remains largely unexplored so far

## Construction of hexagonal metallic-mean approximants of the honeycomb lattice



Large hexagon (L)



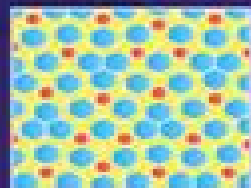
Tilings

Parallelogram (P)

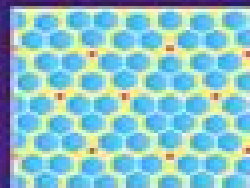


Small hexagon (S)

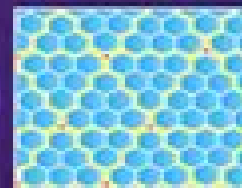
$$\text{Length ratio } (\ell/s) = \text{Metallic mean } (\tau_k) = k + \sqrt{(k^2 + 4)}/2$$



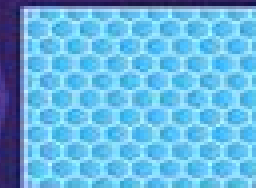
$k = 1$   
(golden-mean tiling)  
 $\tau_1 = 1.618...$



$k = 2$   
(silver-mean tiling)  
 $\tau_2 = 2.414...$



$k = 3$   
(bronze-mean tiling)  
 $\tau_3 = 3.302...$



$k \rightarrow \infty$   
Single honeycomb domain



Majority L tiles in the honeycomb domain



S and P tiles as domain walls



Applicable to polymers and colloidal systems

This study sheds new light on domain wall structures, enhancing our understanding of aperiodic crystals

# Quasicrystals And Incommensurate Structures In Condensed Matter Third International Quasicrystal Conference

**Ian Pickup**



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