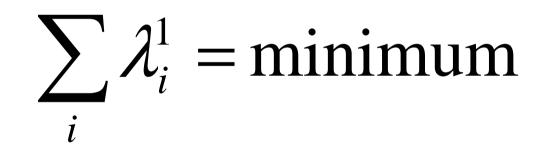
Division of space using first Laplacian eigenvalues

 $\Delta p_i + \lambda_i p_i = 0$ 



We found solution of this problem using the Fleming Viot process Phys.Rev.Lett. 95, 088304 (2005) Solution of this minimization problem: based on numerical calculations

## In 2D honeycomb lattice



## Solution: based on numerical calculations

## in 3D

3D Weaire-Phelan structure with different volumes of 12-sided and 14 sided polyhedra (with slightly different volumes and curvatures than the Weaire-Phelan structure

