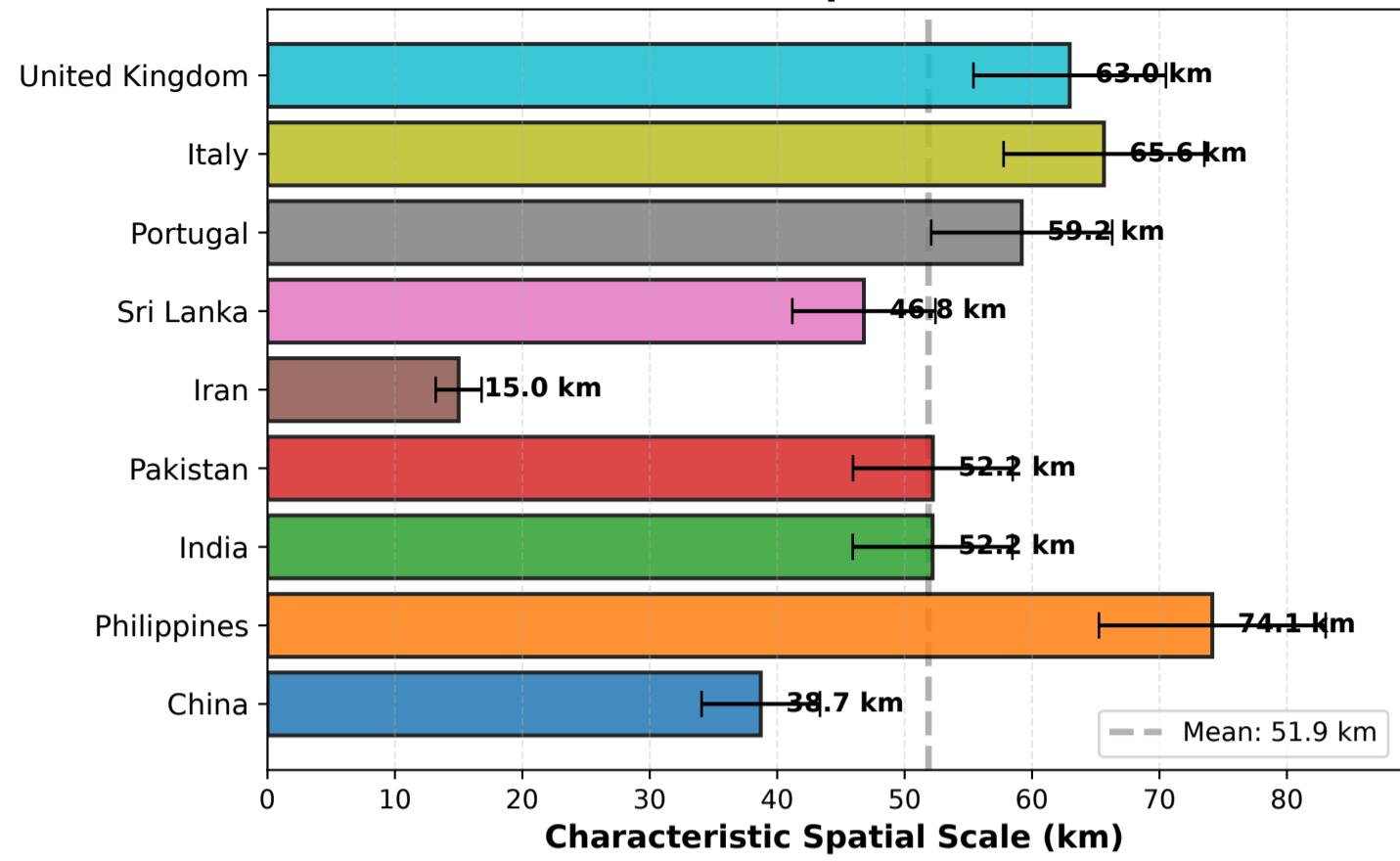


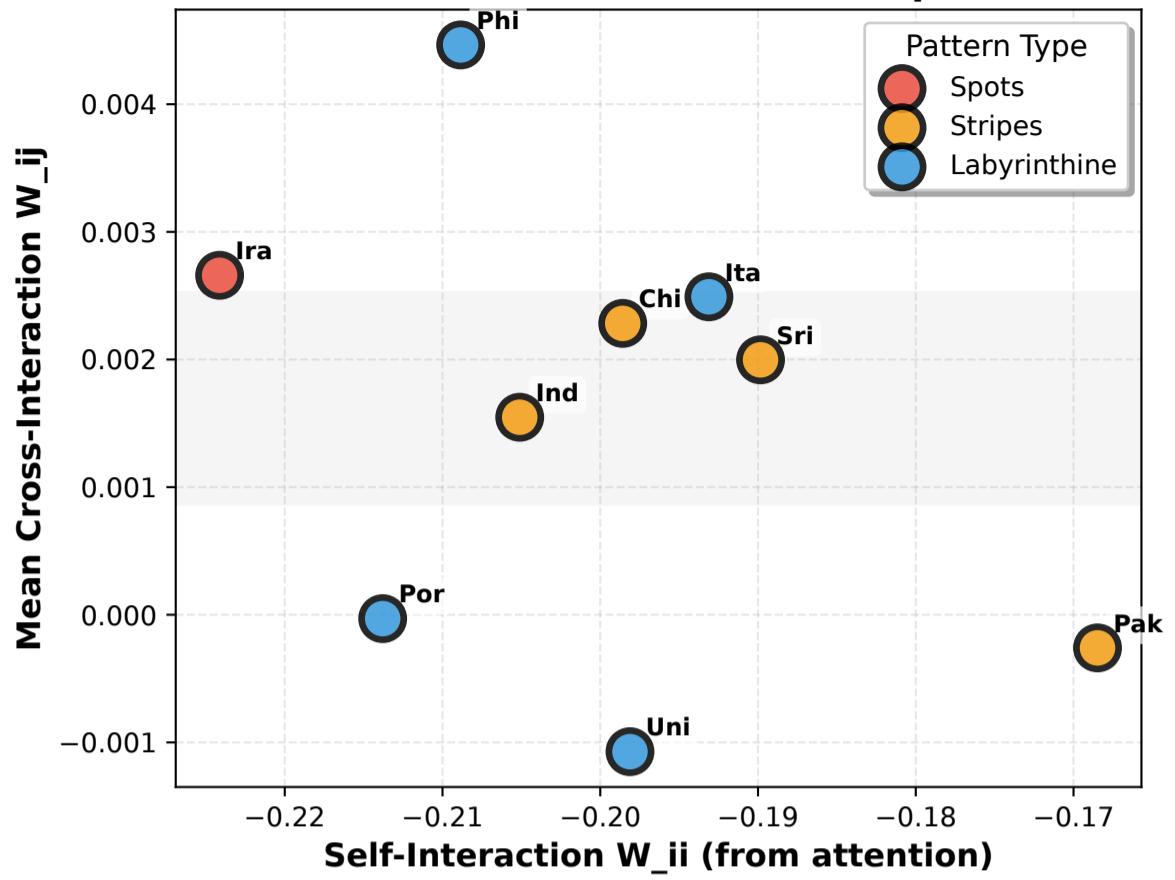
Learned Spatial Patterns from GraphPDE Model Across All Ethnic Groups

Extracted from trained model: attention-based competition + physics parameters + neural residuals

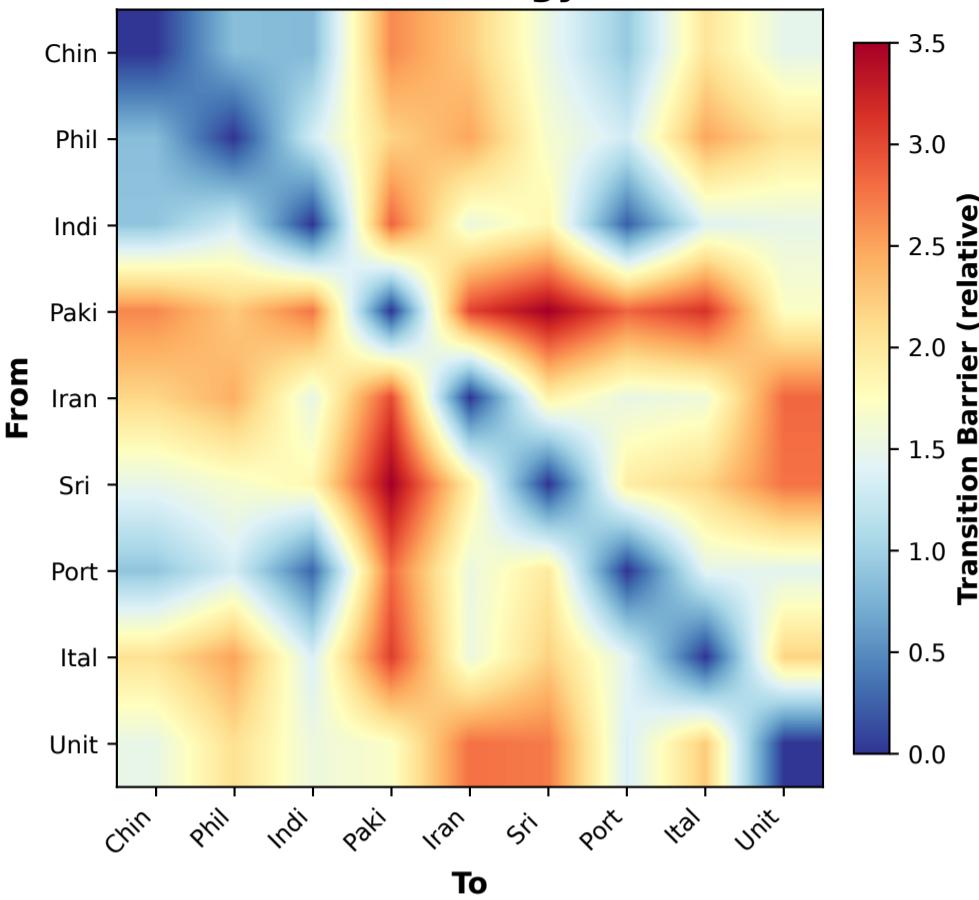
a Learned Spatial Scales



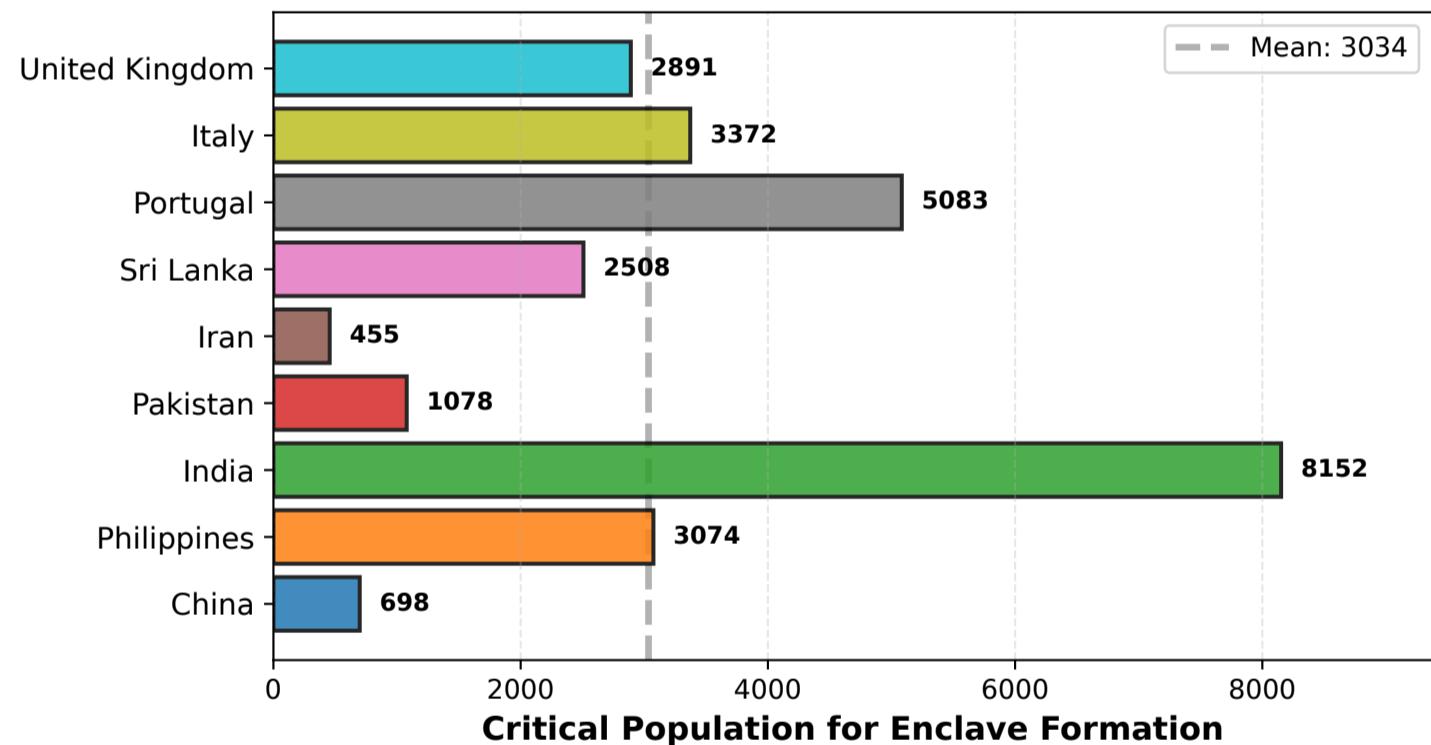
b Pattern Formation Phase Space



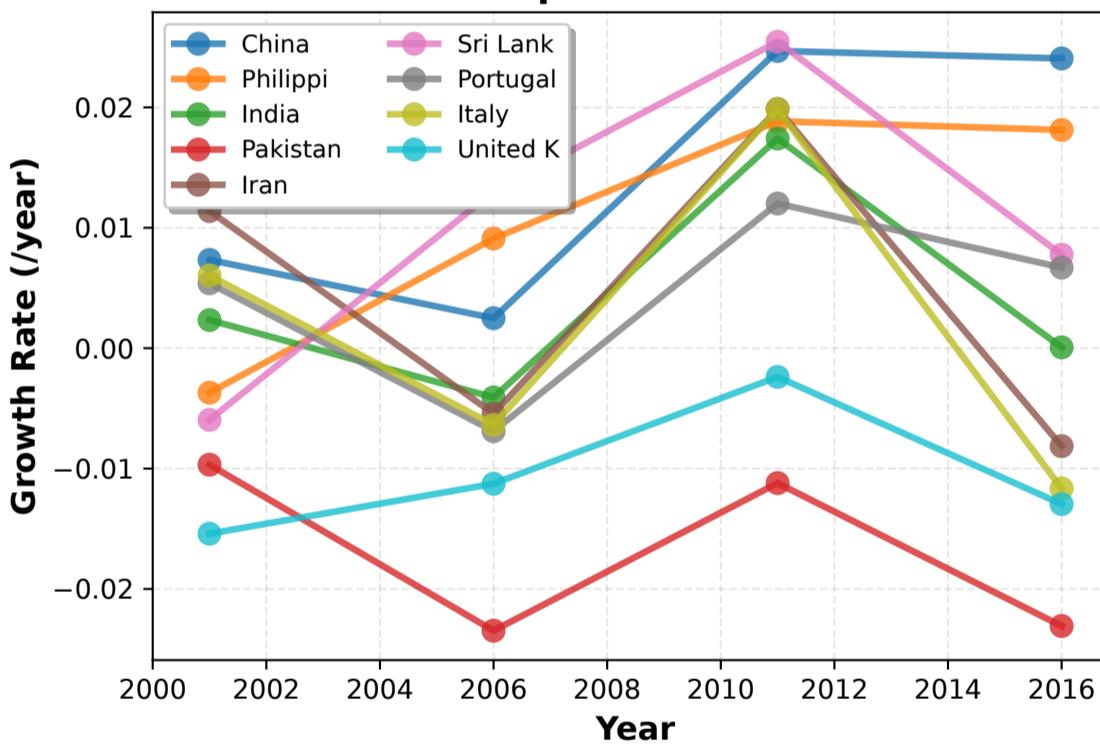
c Transition Energy Barriers



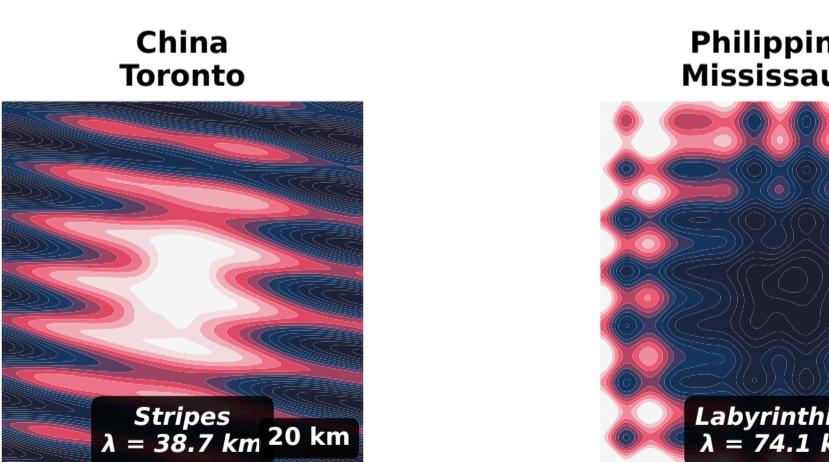
d Nucleation Thresholds



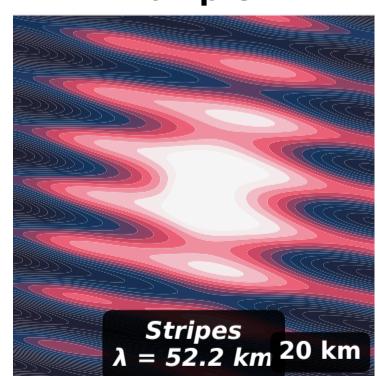
e Temporal Evolution



f Spatial Patterns



India Brampton



Pakistan Markham

