



PHASE SELECTION IN CRYSTAL MONOLAYER OF LOW MOLECULAR WEIGHT POLY(ETHYLENE OXIDE) ON MICA SURFACE

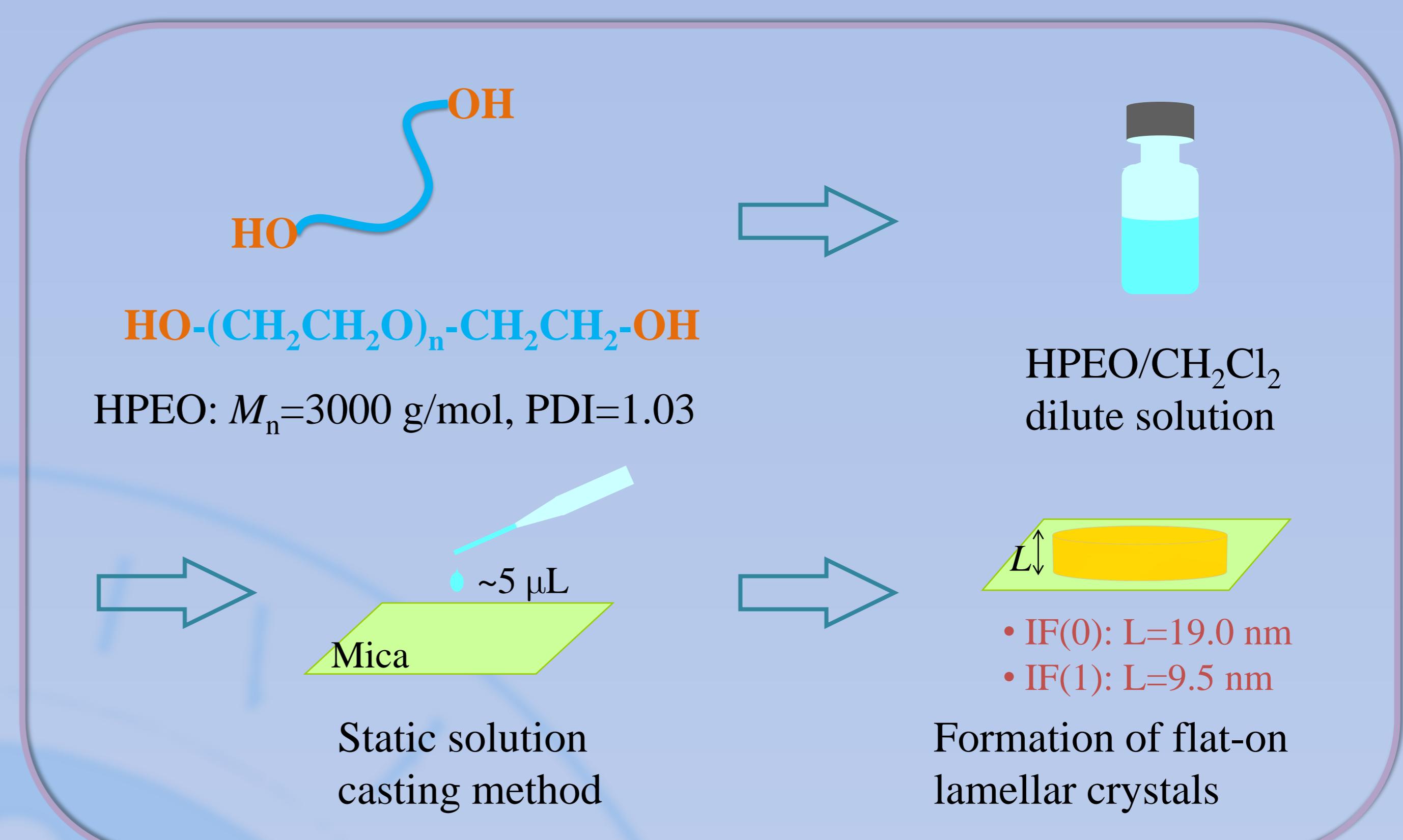
Yi-Xin Liu, Dun-Shen Zhu, Er-Qiang Chen*

College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China

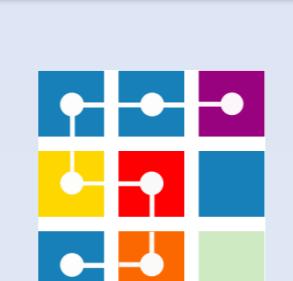
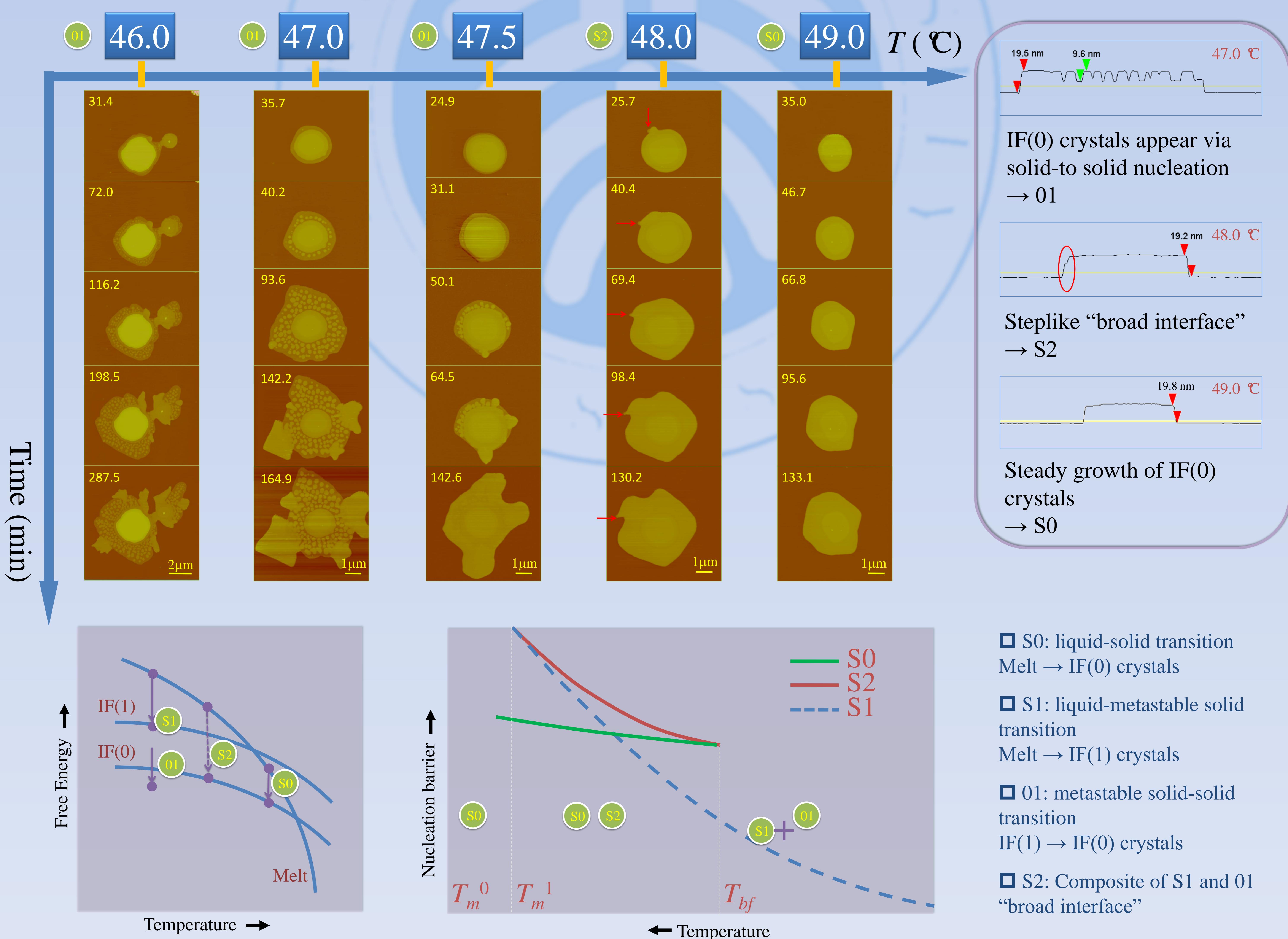
1. BACKGROUND

- Metastable phases appear in a wide variety of materials.
- Solidification to nonequilibrium phases has been observed in freezing of undercooled liquids, crystallization of oxide and metallic metals, etc.. Remarkable efforts have been made to develop both theoretical and numerical methods to identify main features of such complex systems far from equilibrium due to the difficulties in conventional experimental methods.
- Here, we report our experimental observations on crystallization of monolayer crystals on mica surface, which provide a direct evidence for the theoretical prediction of Gránásy and Oxtoby.

2. SAMPLE PREPARATION



3. PHASE SELECTION



Polymer Condensed Matter Physics Lab

北京大学高分子凝聚态物理实验室