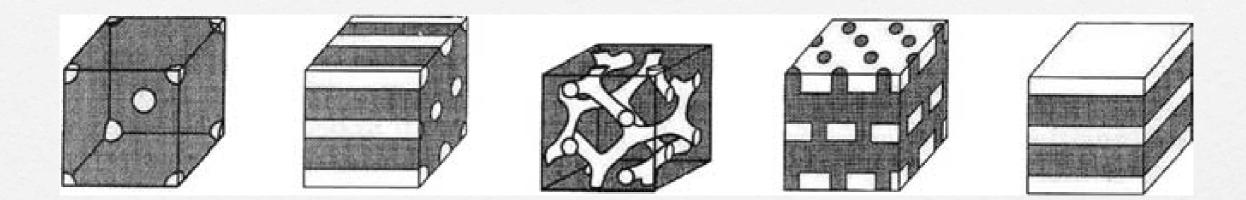
Block Copolymers

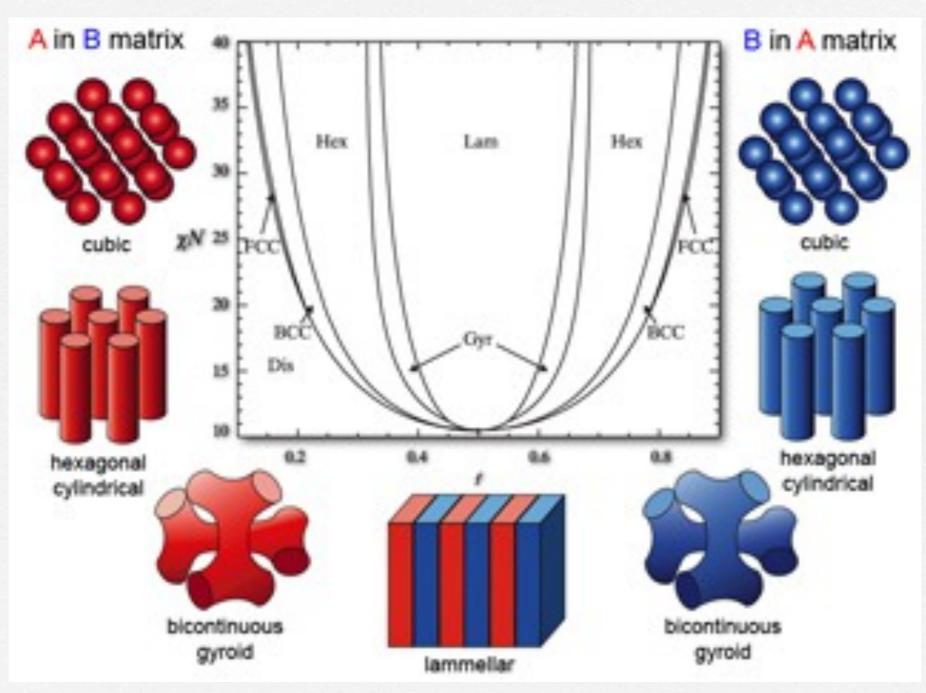


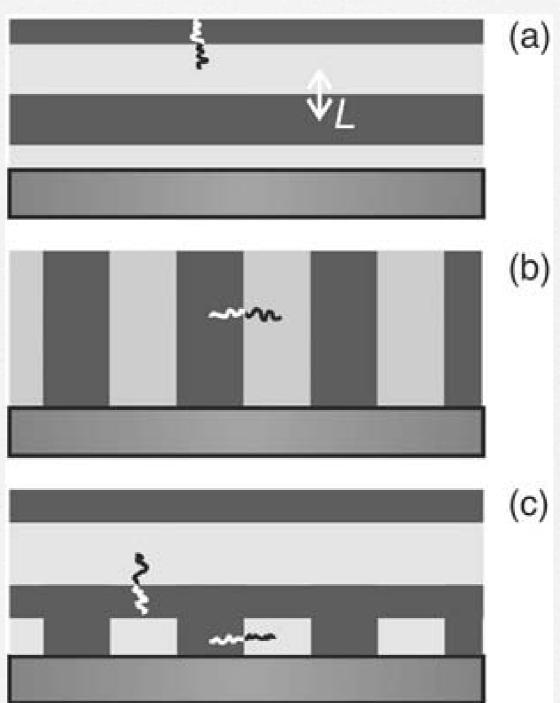
body-centred cubic spherical phase

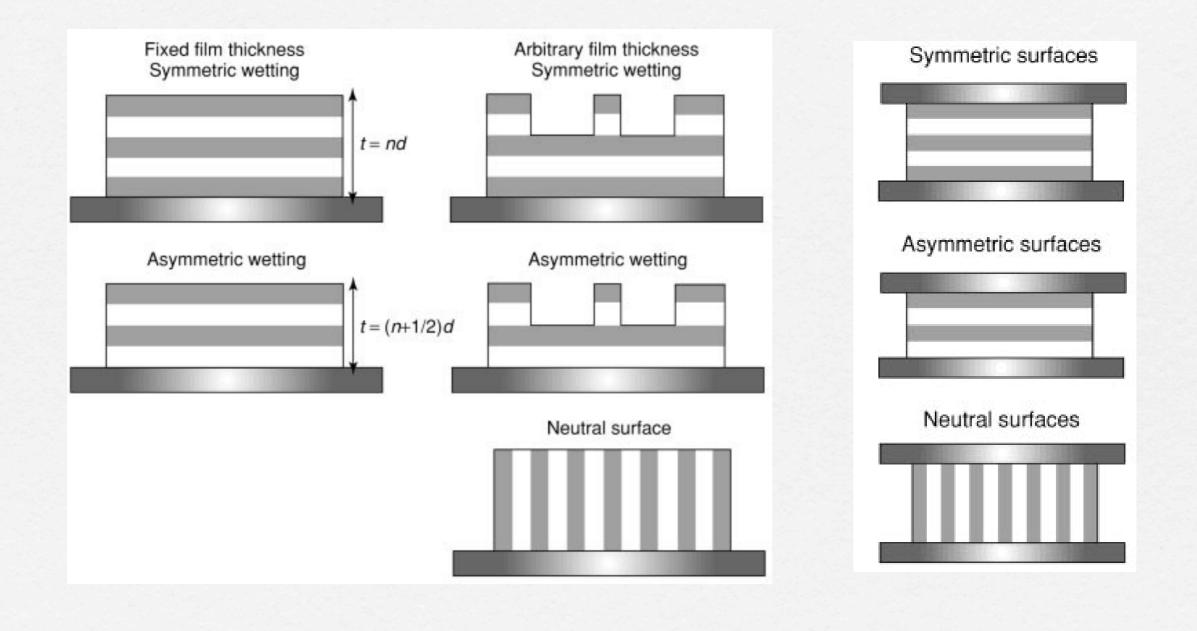
gyroid or perforated layers

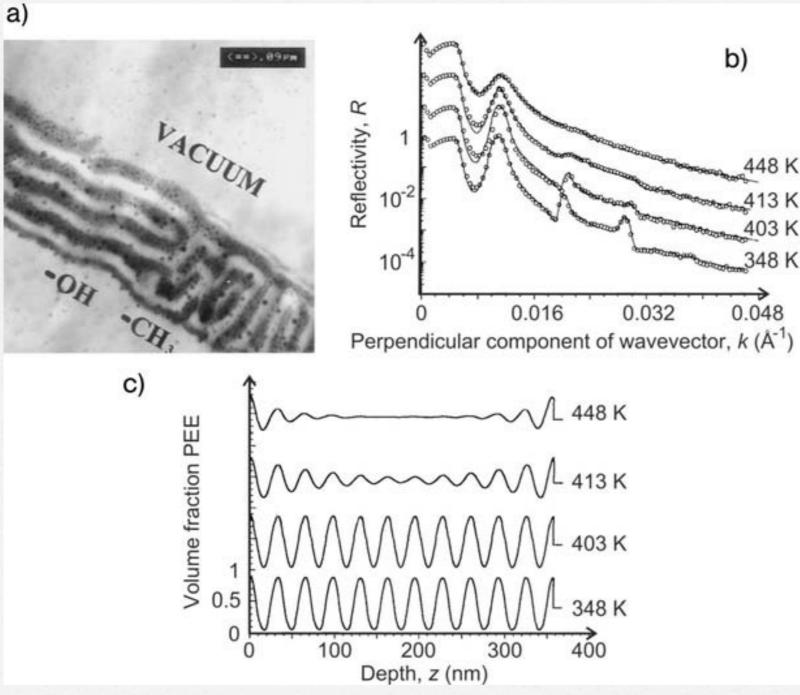
Alternating lamellae

hexagonally packed cylinders



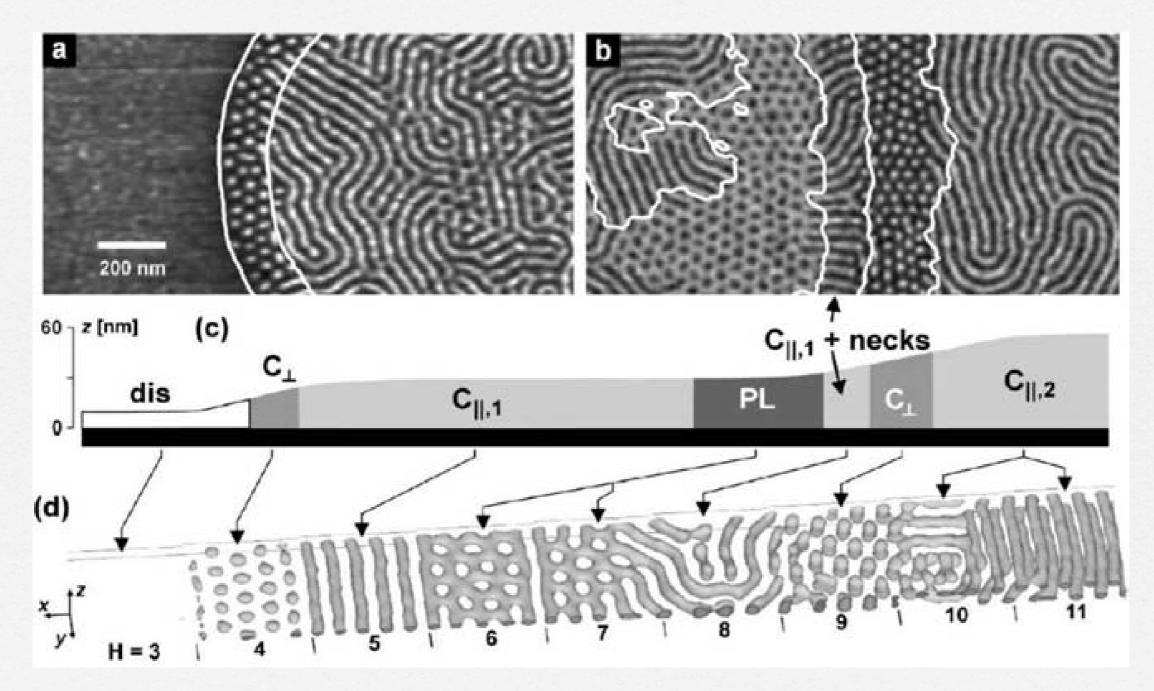






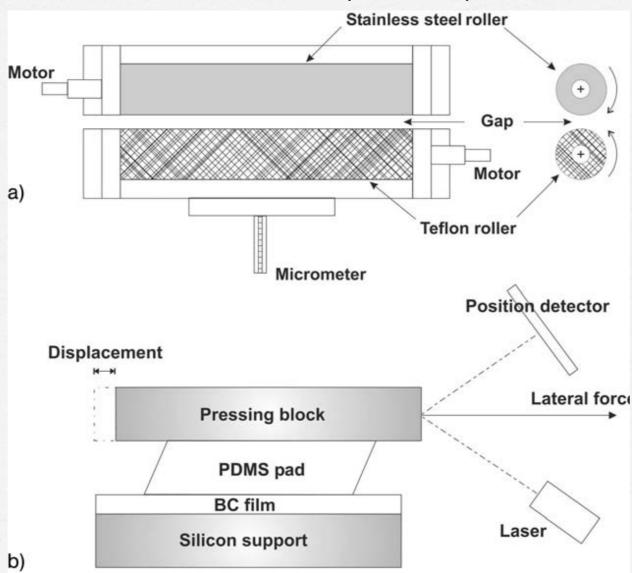
a) TEM image of a polystyreneblock-poly(2-vinyl pyridine) poly(2-vinyl pyridine) block was stained with iodine to enhance contrast.

Neutron reflectometry data (b) and volume fraction-depth profiles (c) are shown for a block copolymer of poly(ethyl ethylene) and poly(ethylene propylene). ODT visible

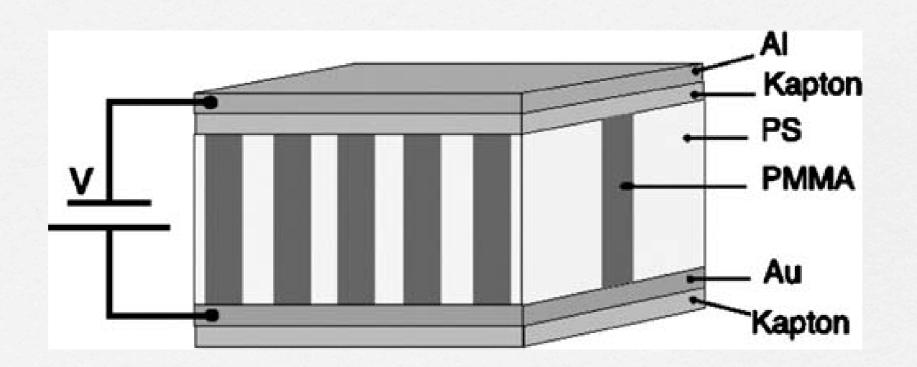


orientation by external fields a) solvent vapor b) mechanical flow fields c) electric and magnetic fields

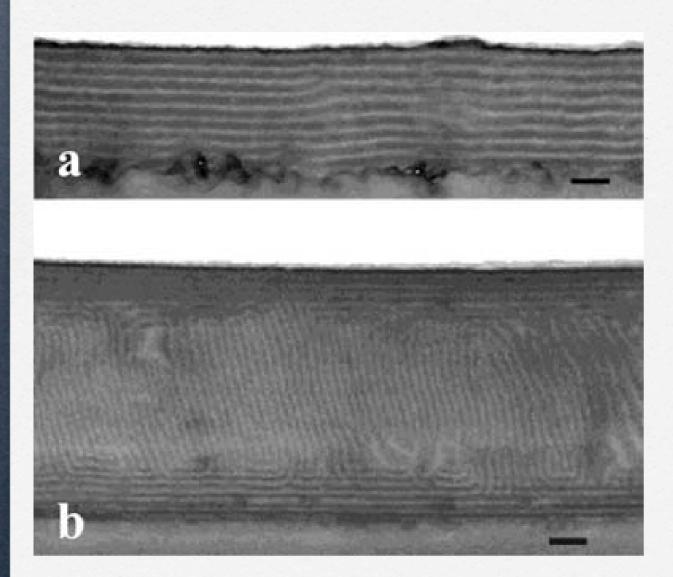
orientation by external fields b) mechanical flow fields

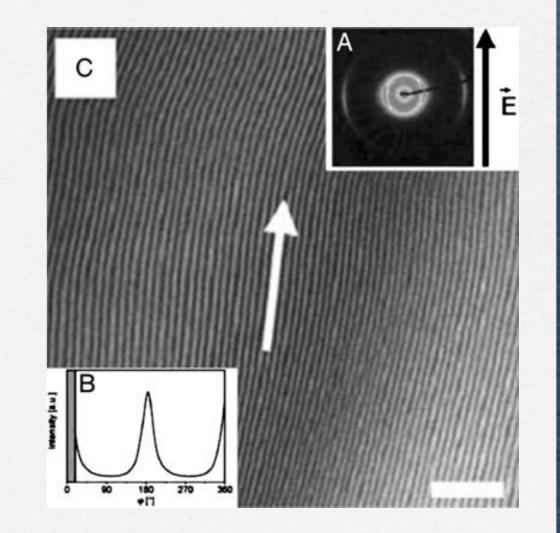


orientation by external fields c) electric and magnetic fields

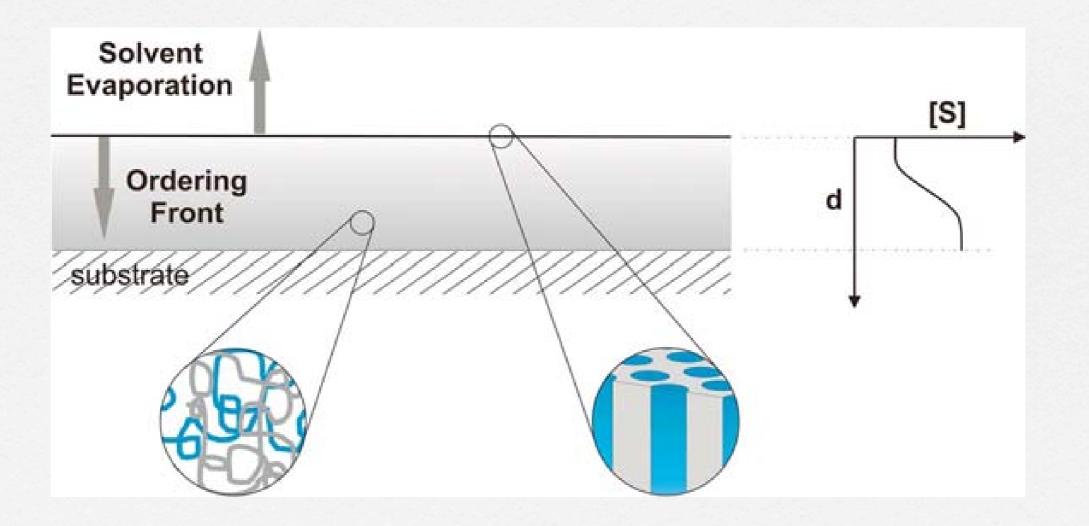


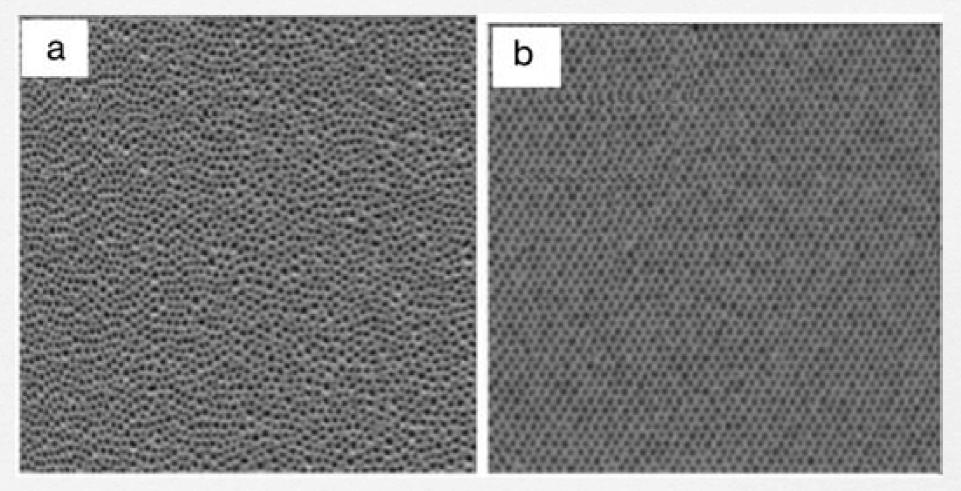
orientation by external fields c) electric and magnetic fields





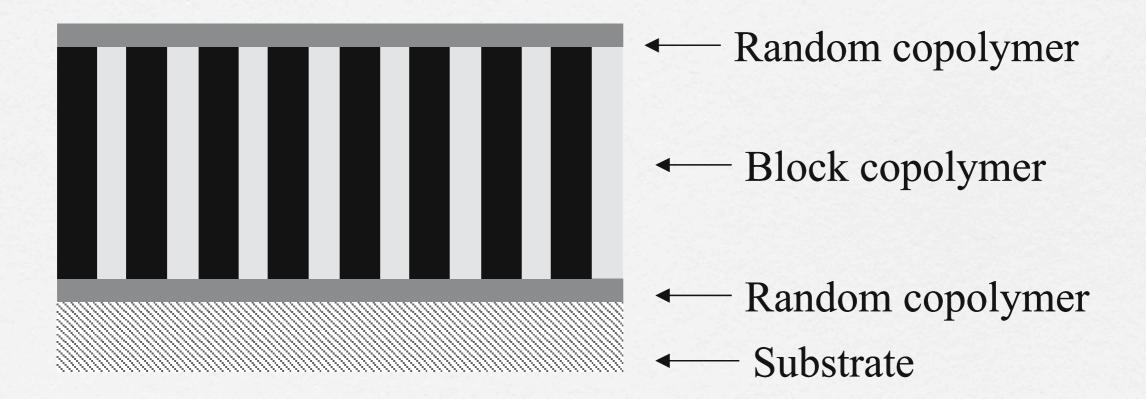
orientation by external fields a) solvent vapor

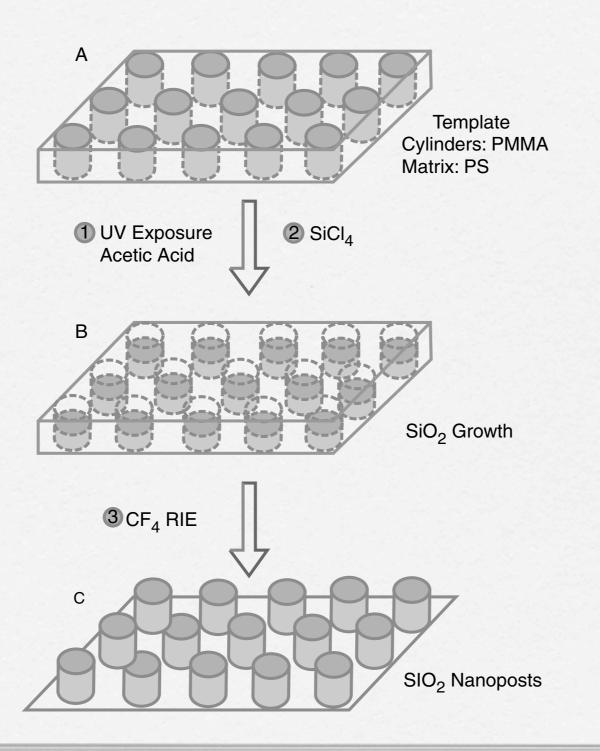


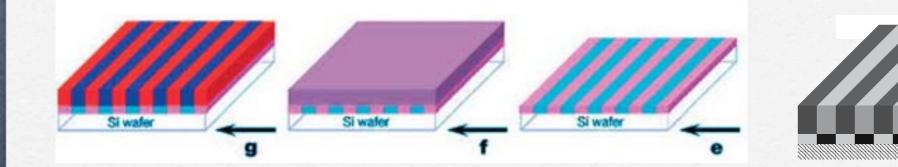


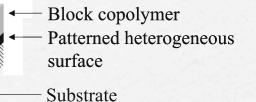
PEO-b-PS film before (a) and after (b) exposure to benzene vapor

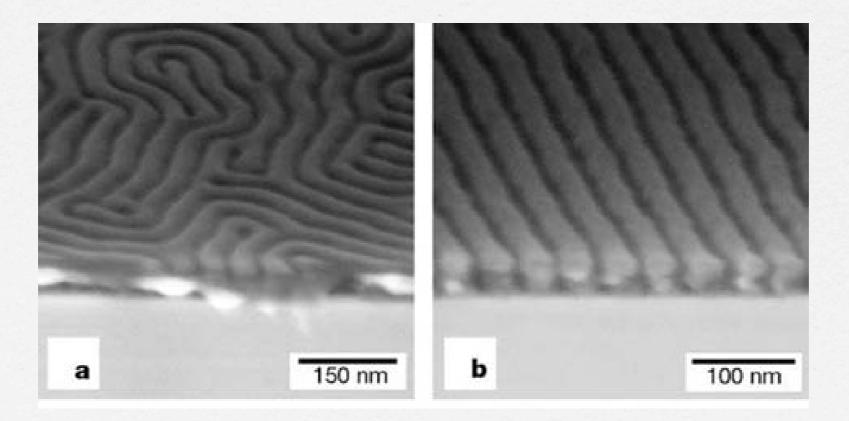
orientation using a neutral layer

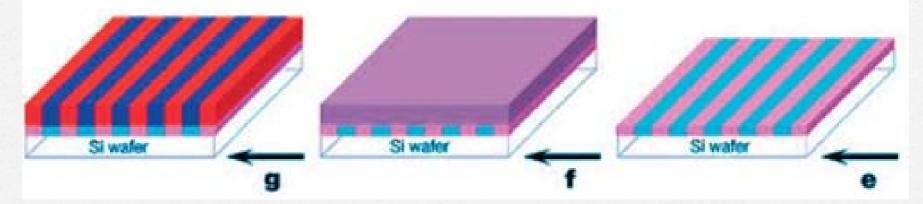




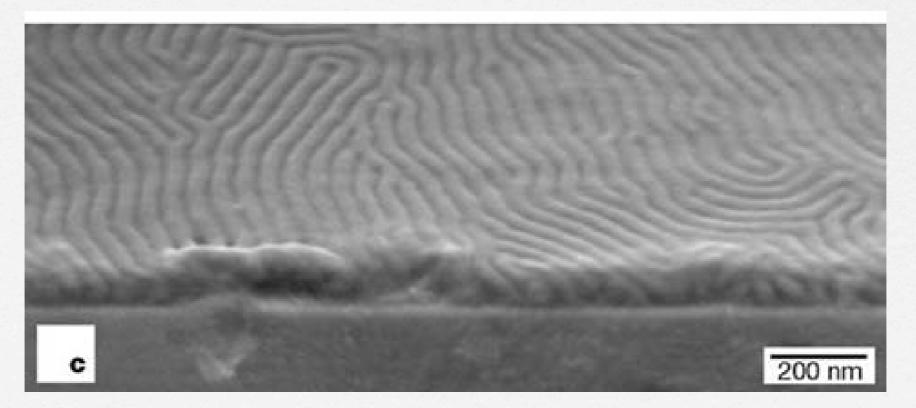


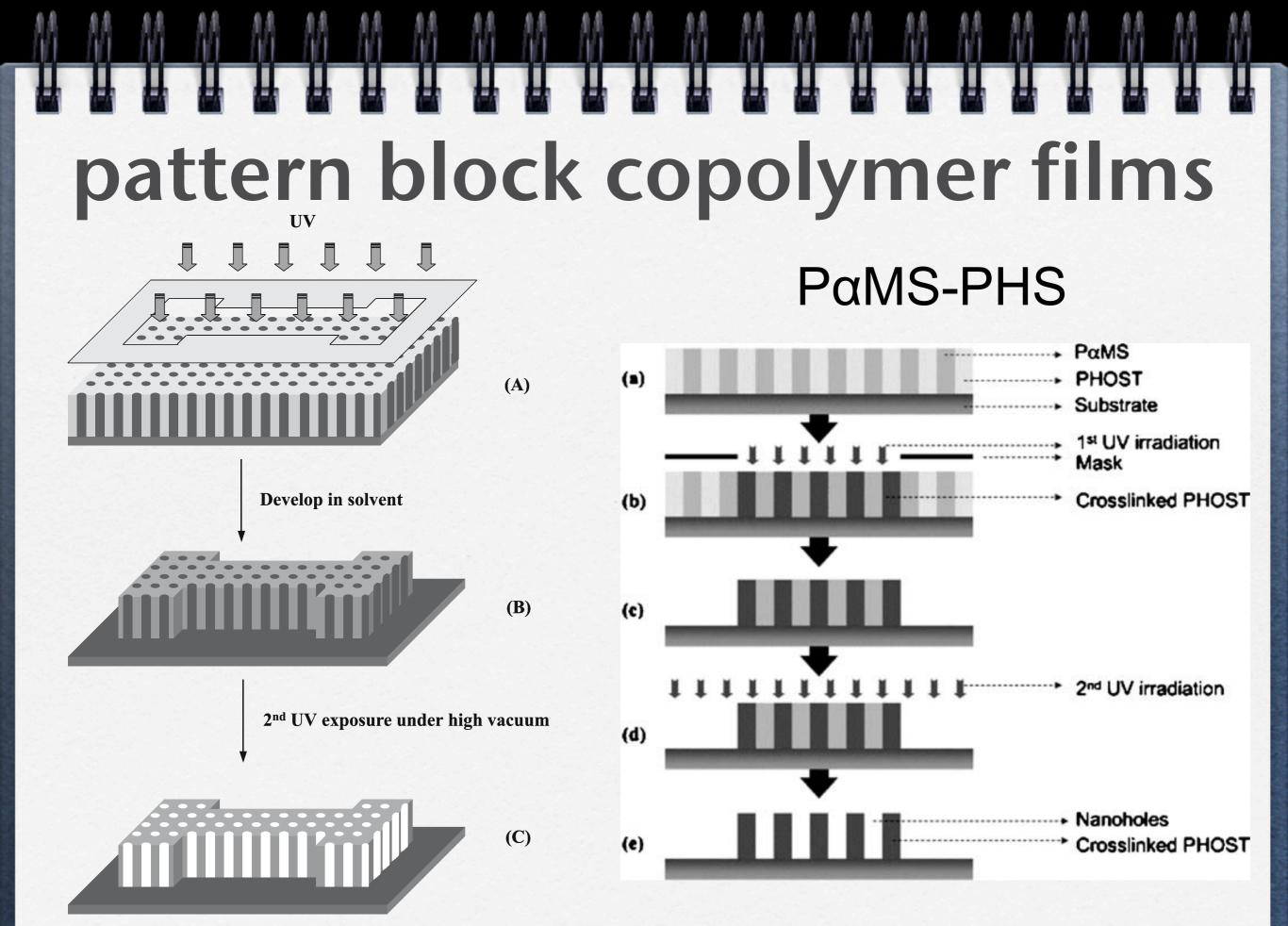


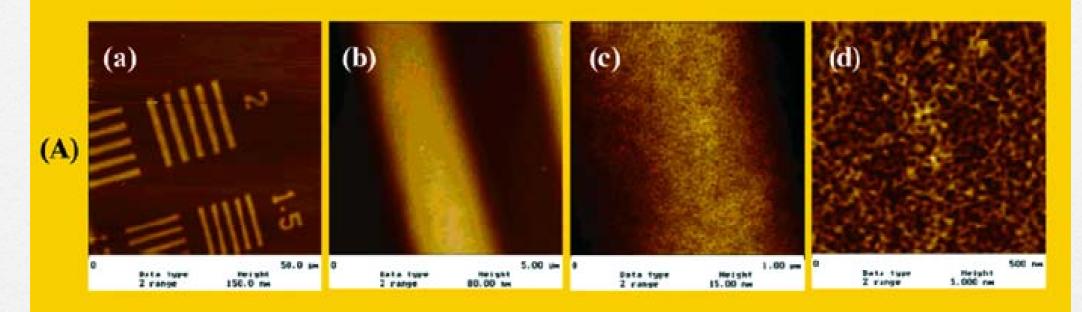


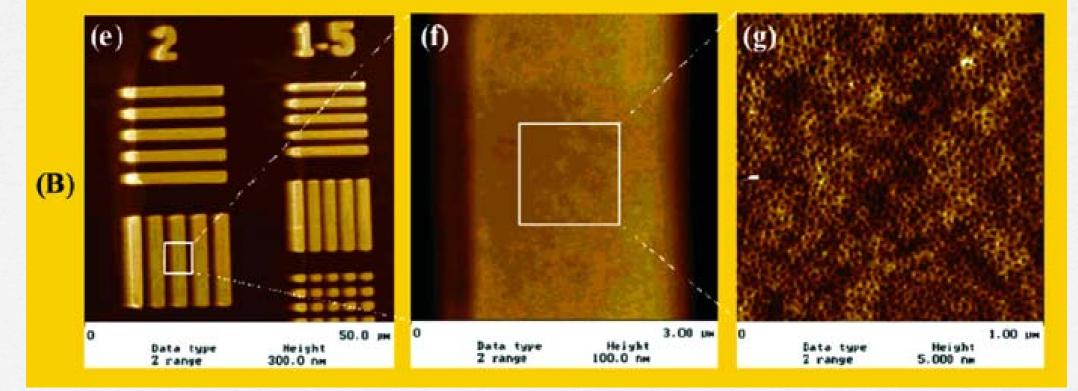


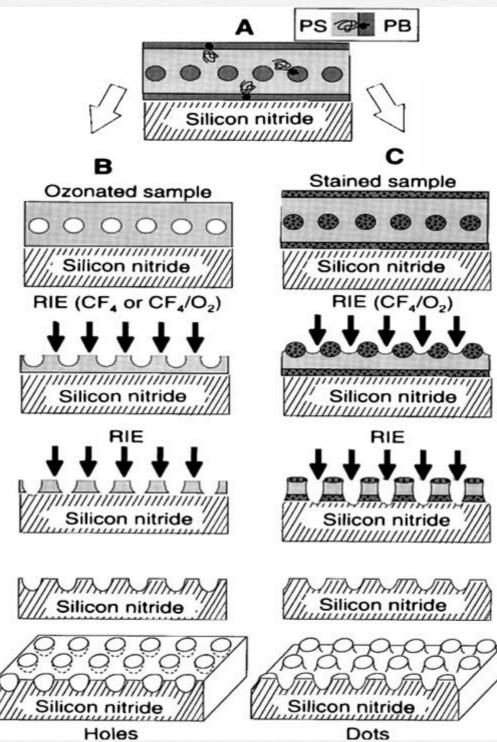
what if pattern is greater than Lo?

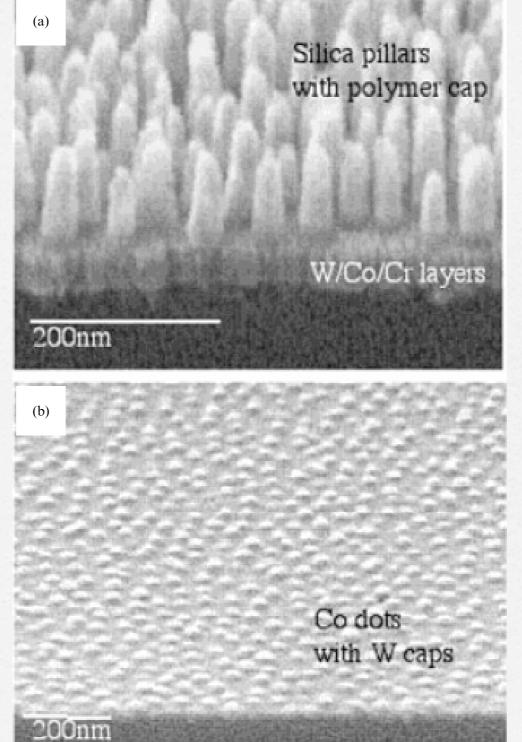




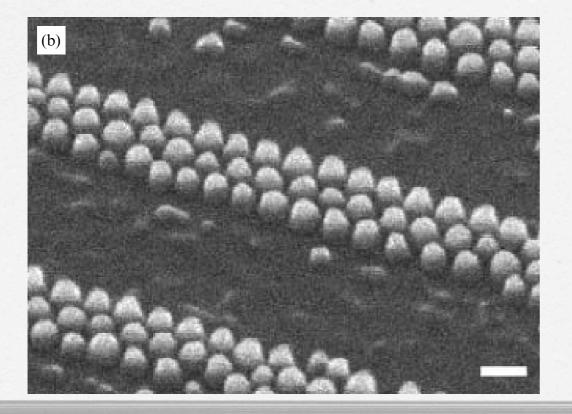




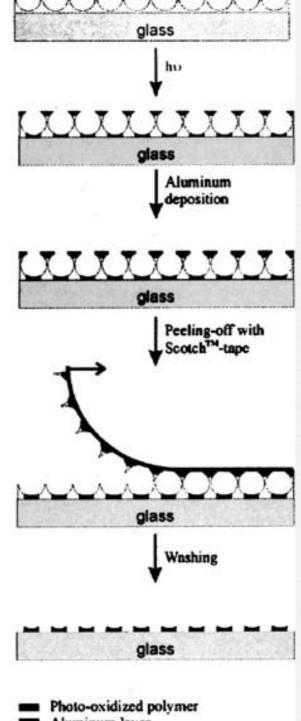




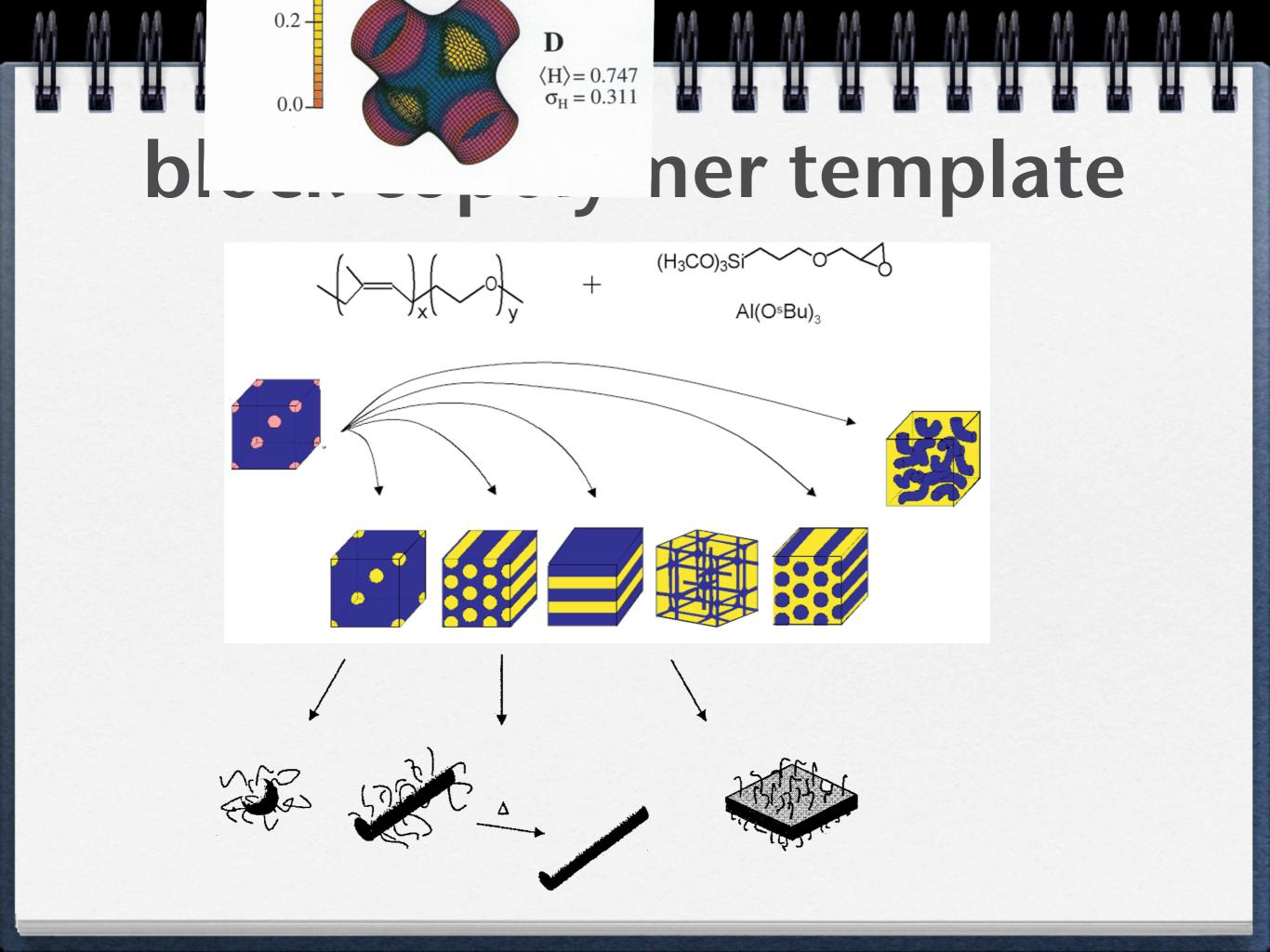




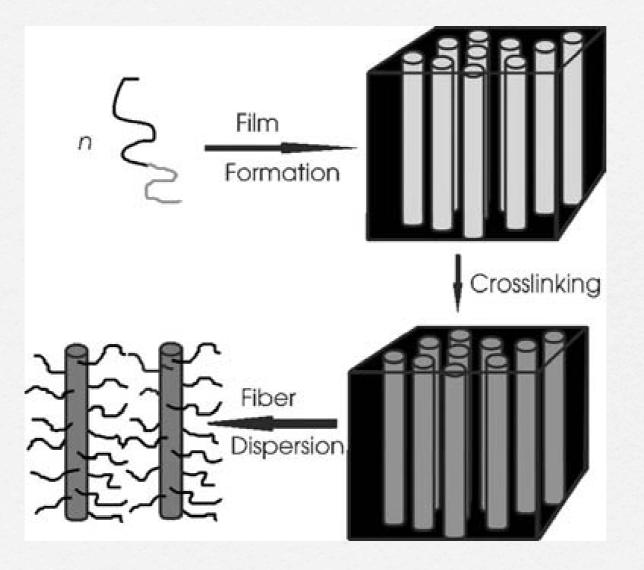
Fabrication strategy employed by researchers at Toshiba. (a) 6.25 cm (2.5 inch) HDD glass plate used for information storage. Circular lines originate from interference colors of embossed lines. (b) SEM micrograph of CoCrPt dots formed from copolymer template in substrate grooves. Bar 1/4 50 nm



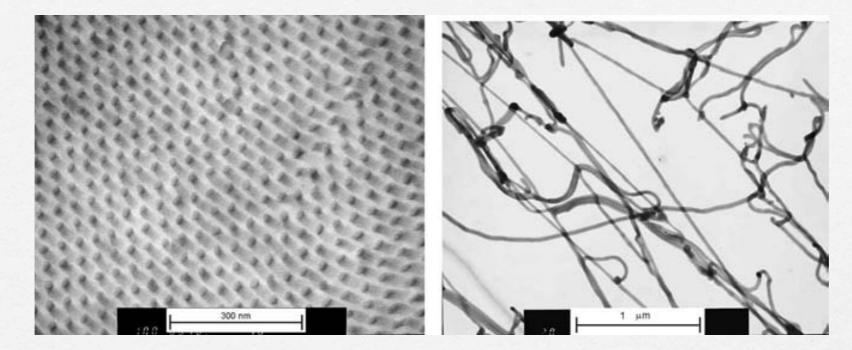
Aluminum layer

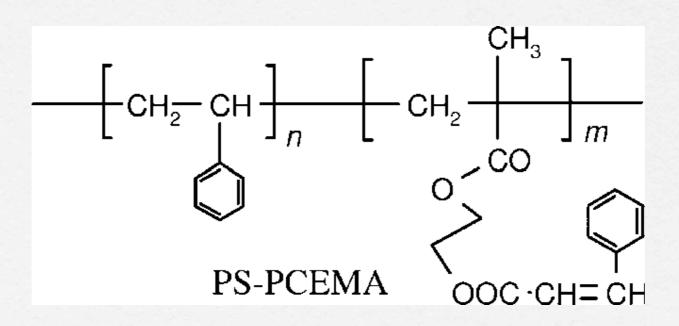


block copolymer nanofibers



block copolymer nanofibers

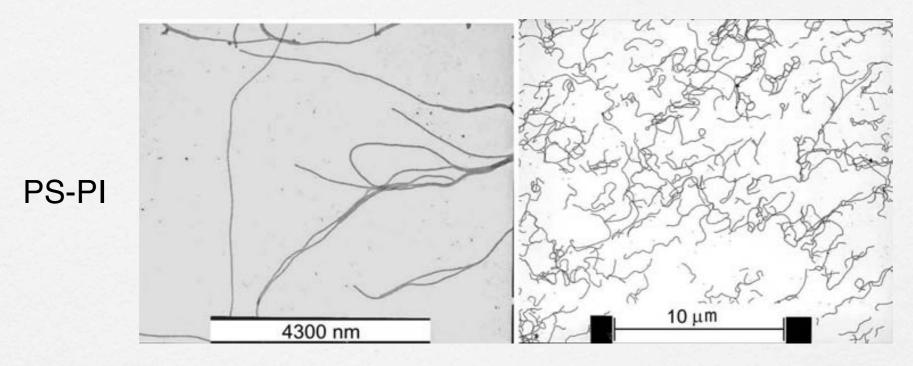






 S_2Cl_2

ÇH-CH-



ÇH₃

CH-CH-CH-CH-CH-

CH₂-C=CH-CH₂-

