

DESIGN: COILS

FLUID MEMBRANES

(TSAFRIR, GUEDEAU-BOUDEVILLE, KANDEL, STAVANS)

EXP: MULTILAMELLAR MEMBRANE PLUS POLYMER
(HYDROPHILIC BACKBONE + HYDROPHOBIC SIDE-
CHAINS)



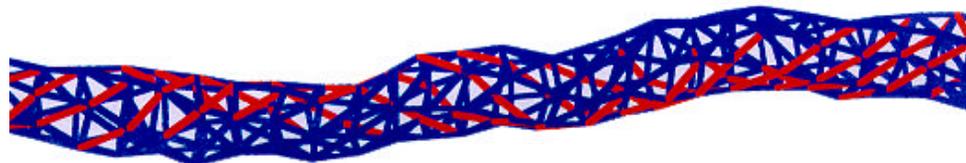
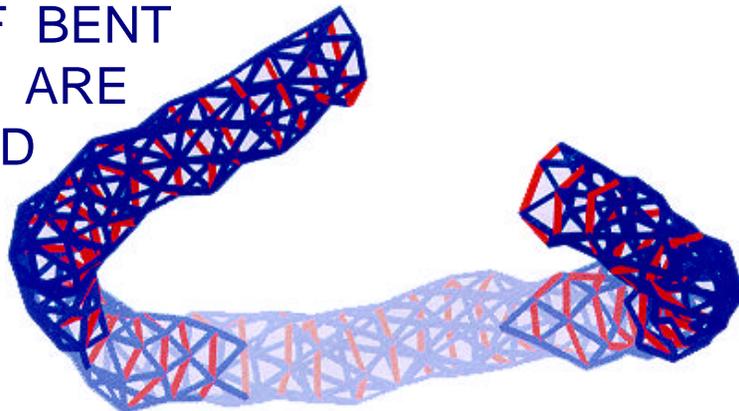
PHASE TRANSITION TO
MAXIMALLY TIGHT COILS WITH
INCREASING POLYMER DENSITY

THEORY: COUPLE COMPOSITION TO CURVATURE

POLYMERIZED MEMBRANES

INHOMOGENEOUS COMPOSITION: RED BONDS ARE
BENT

COIL IF BENT
BONDS ARE
AROUND
HOOP



STRAIGHT TUBE IF BENT BONDS ALONG DIAGONAL