



INTERNATIONAL ATOMIC ENERGY AGENCY
UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION
INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS
I.C.T.P., P.O. BOX 586, 34100 TRIESTE, ITALY, CABLE CENTRATOM TRIESTE



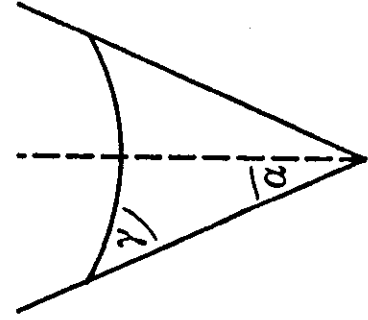
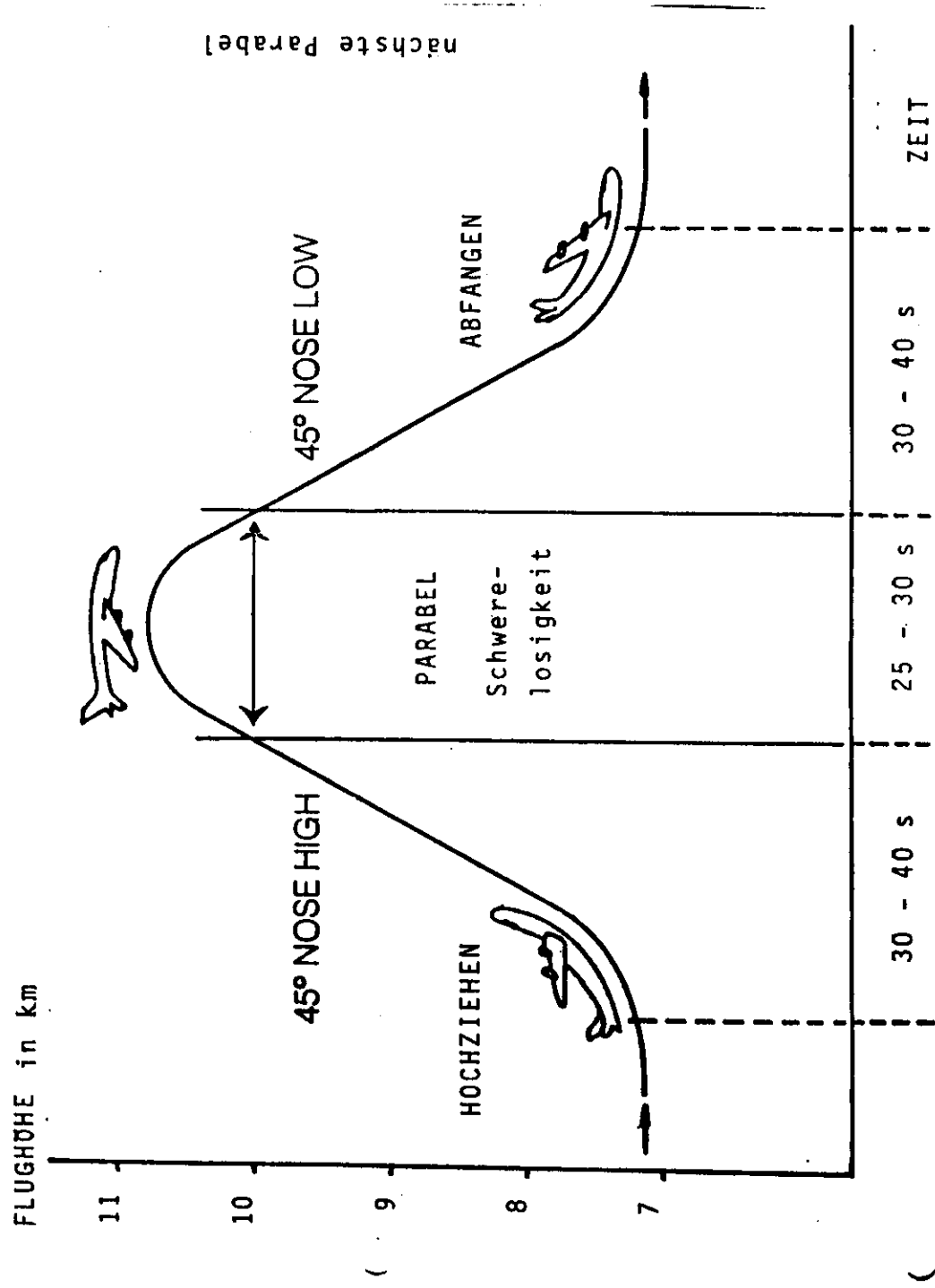
SMR/382- 28

WORKSHOP ON SPACE PHYSICS:
"Materials in Microgravity"
27 February - 17 March 1989

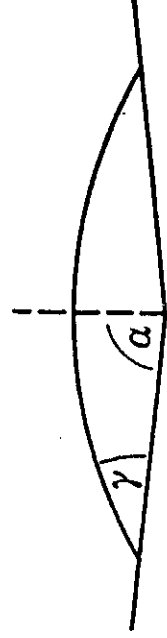
"Wetting and Stability Experiments Performed in Parabolic Flights"

D. LANGBEIN
Battelle Europe - Battelle Institut E.V.
Frankfurt, Federal Republic of Germany

Please note: These are preliminary notes intended for internal distribution only.

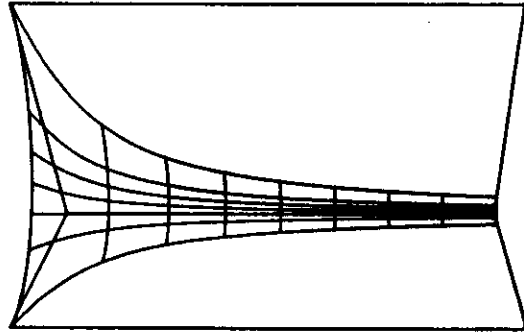
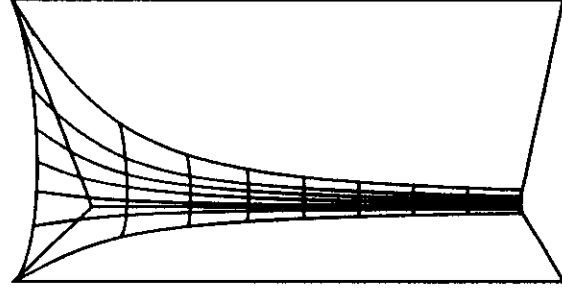
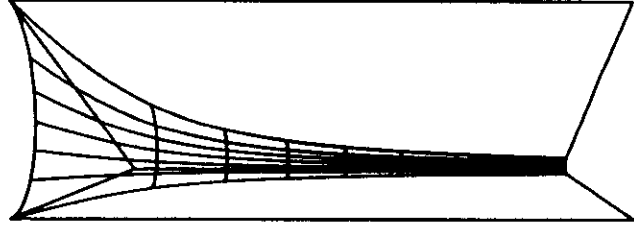


$$\alpha + \gamma < \pi/2$$



$$\alpha + \gamma > \pi/2$$

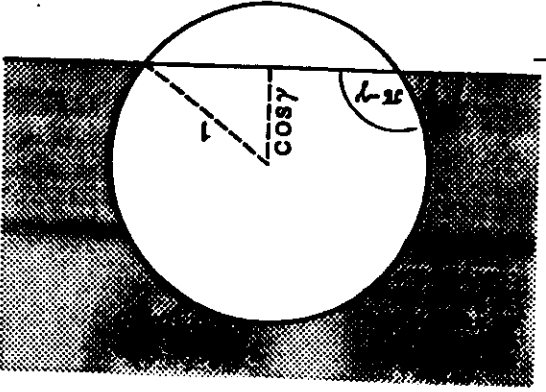
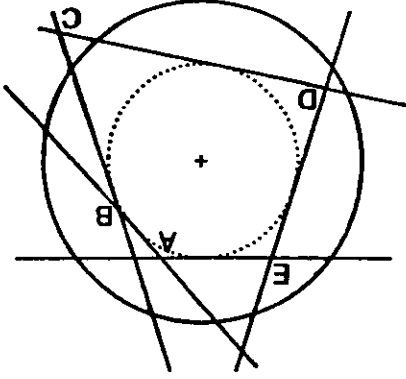
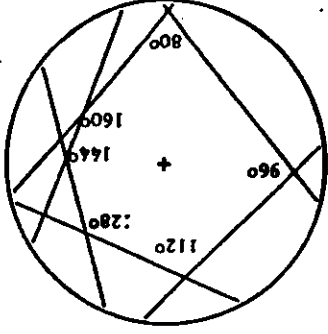
Fig. 1: Concave and convex liquid menisci for $\alpha + \gamma \leq \pi/2$, corresponding to negative and positive fluid static pressure in

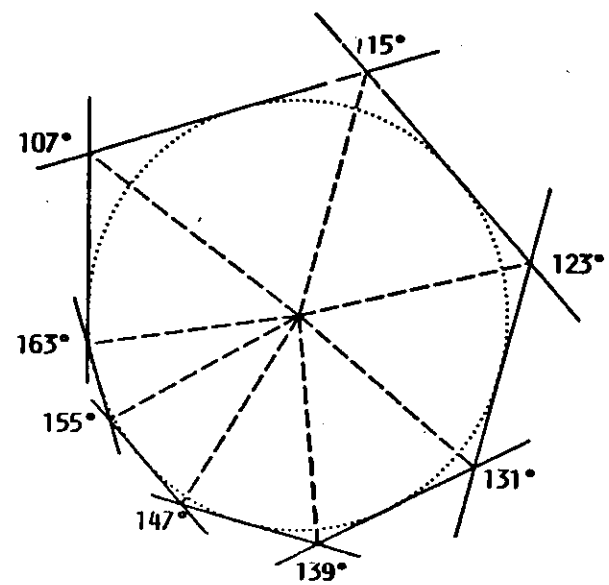
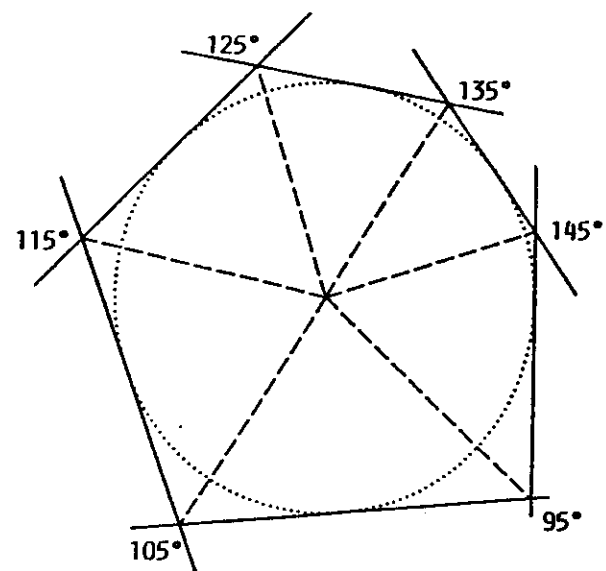
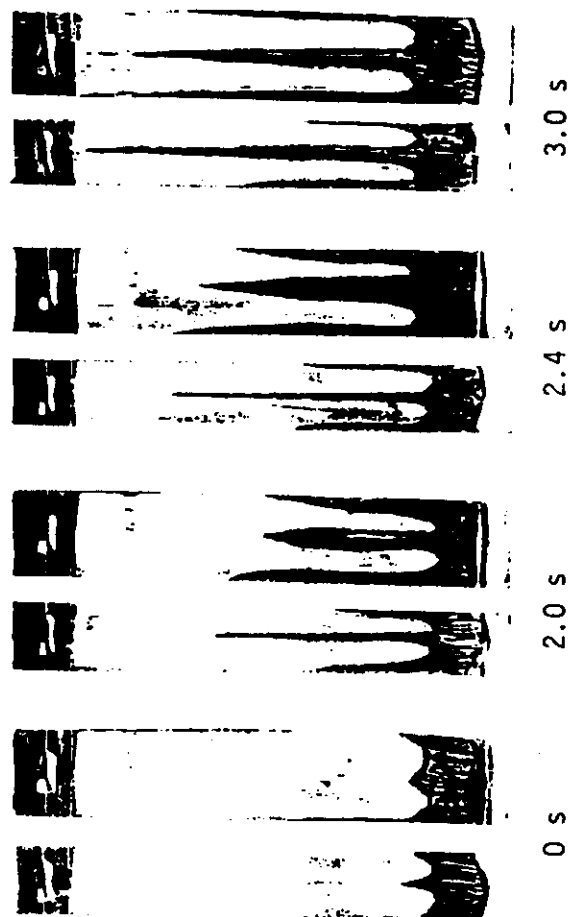


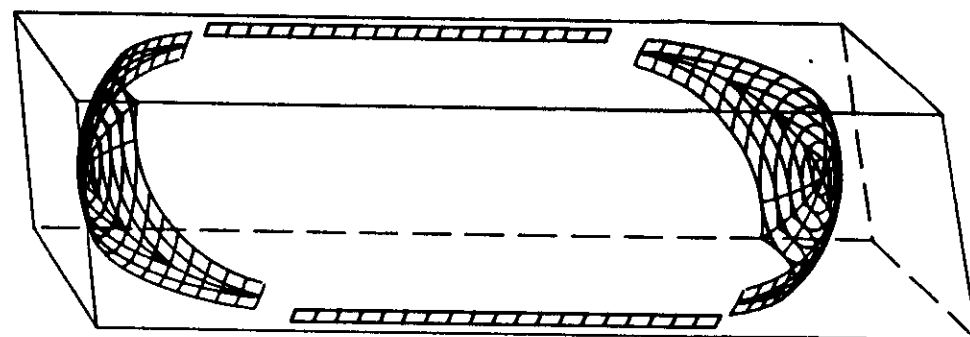
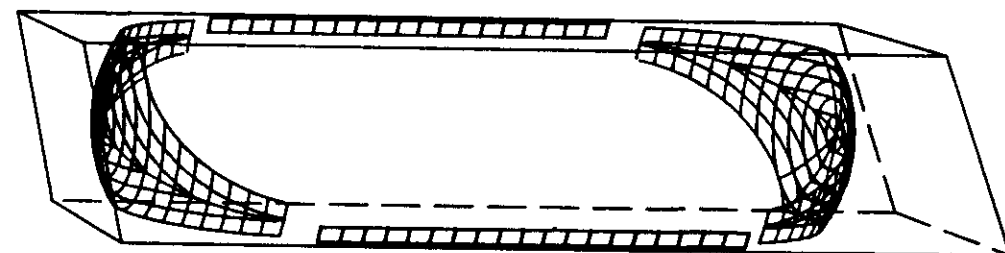
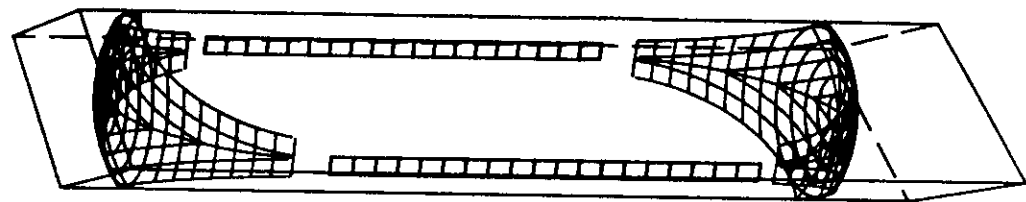
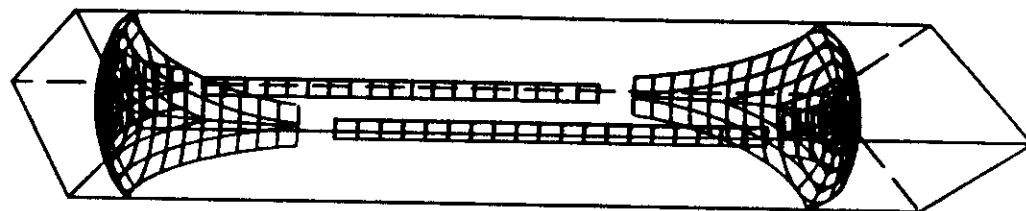
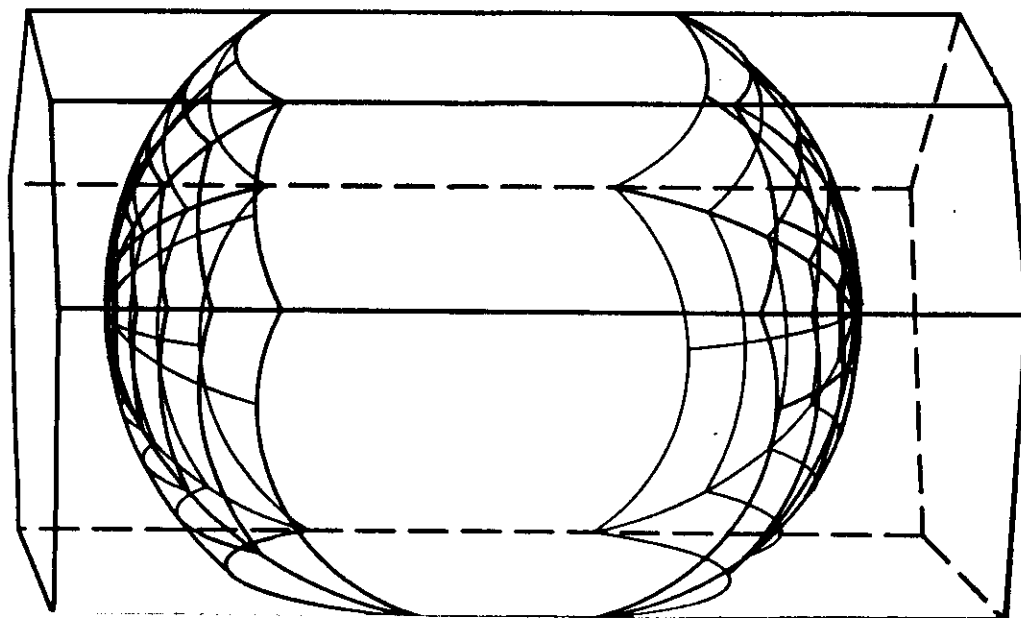
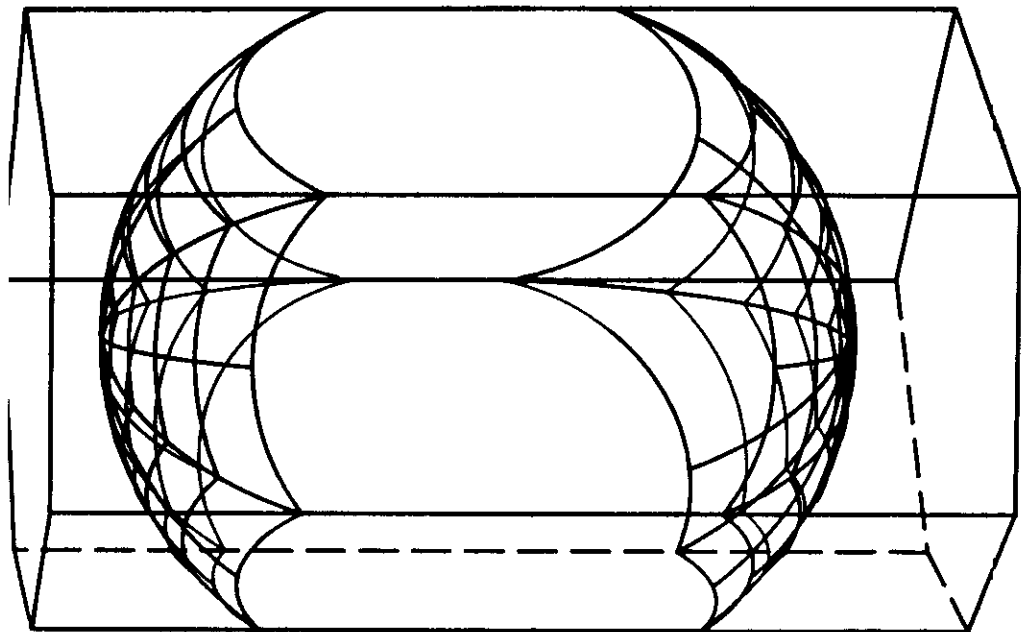
a)

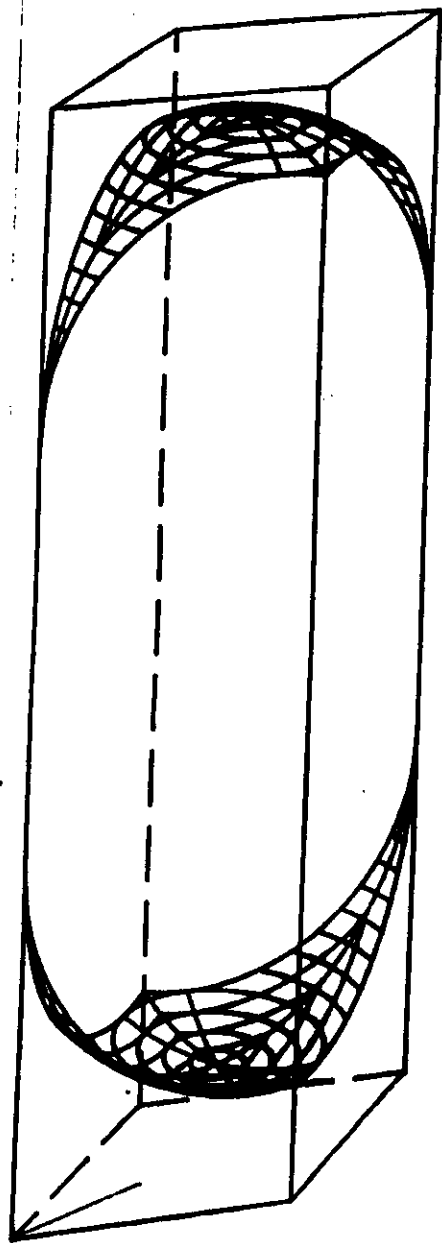
b)

c)

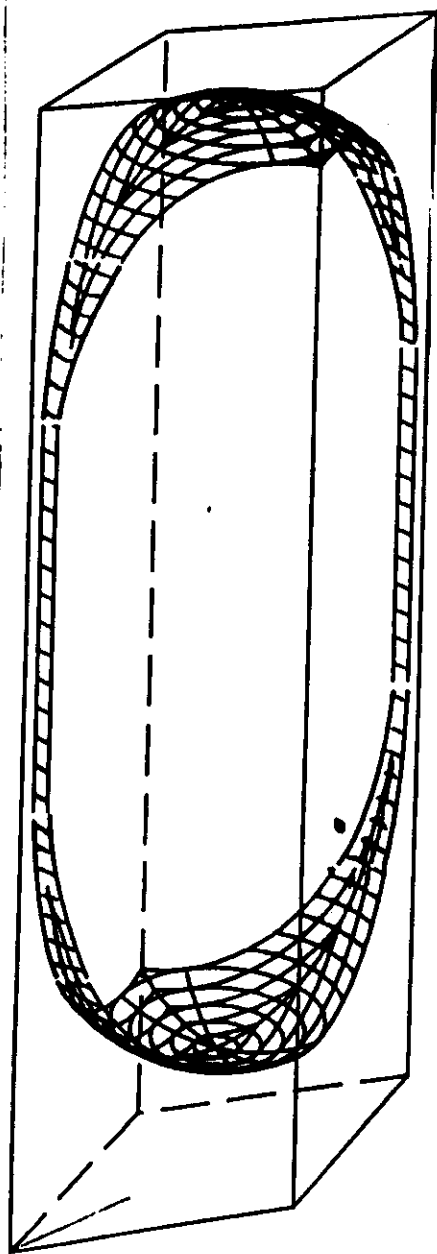






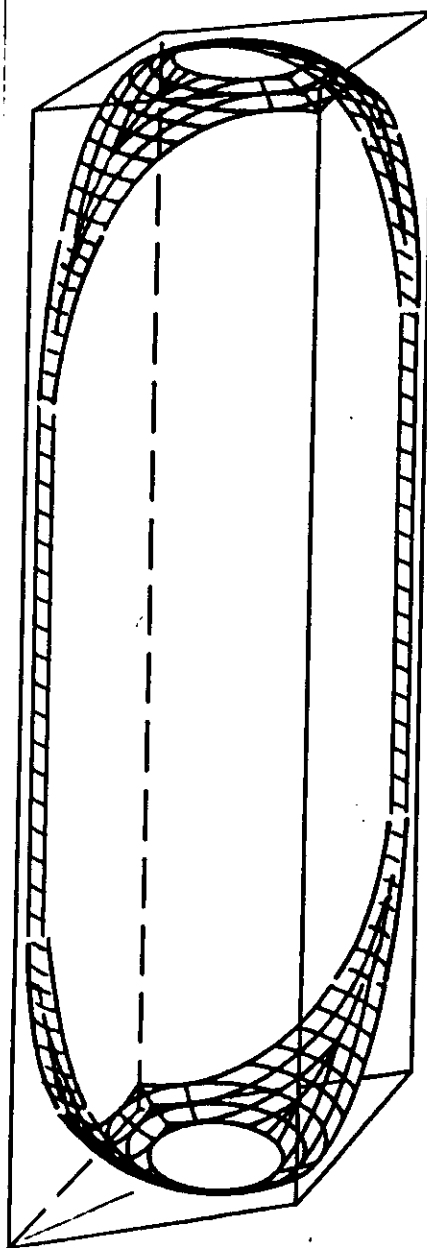


$$\alpha + \gamma > \pi/2$$



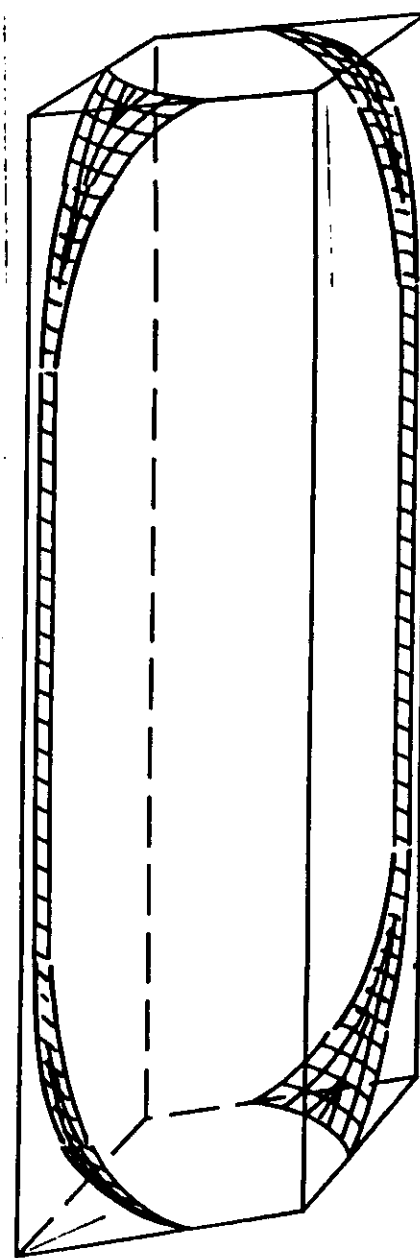
$$\alpha + \gamma < \pi/2$$

$$\alpha < \gamma$$



$$\alpha + \gamma < \pi/2$$

$$\alpha < \gamma < \pi/4$$



$$\alpha + \gamma < \pi/2$$

$$\alpha < \pi/4 < \gamma$$