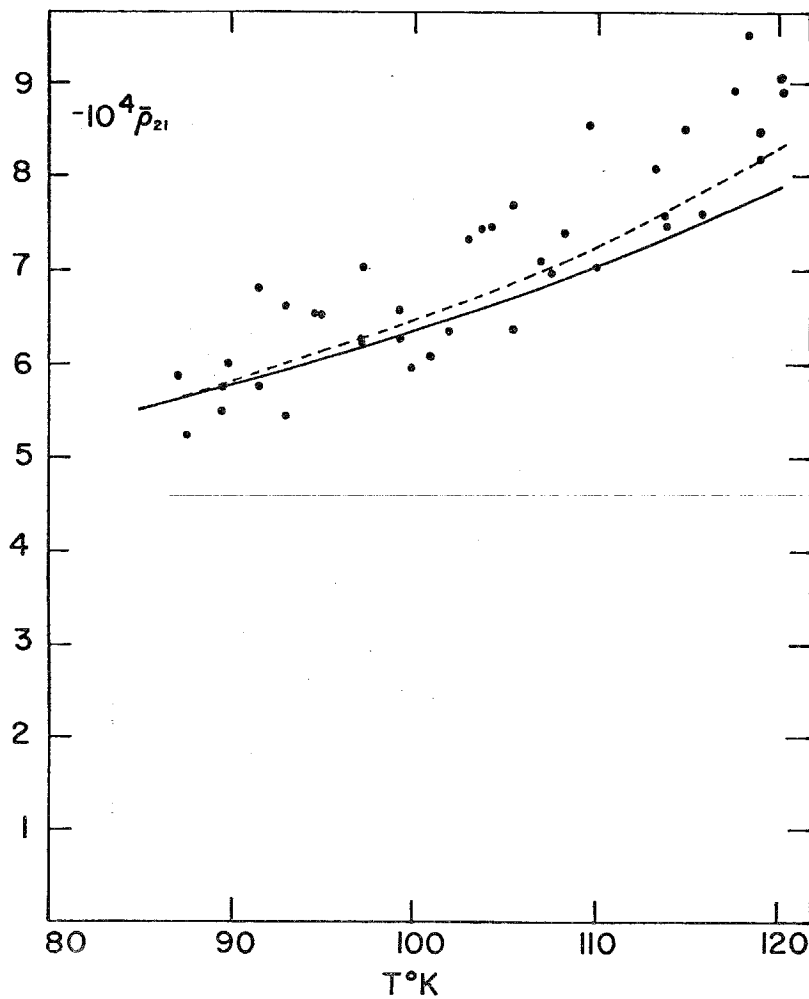


**The thickness of the liquid-vapour interface of liquid argon near its triple point (84K).**

This was the first serious measurement with the Picometer, carried out in response to a request from John Lekner for accurate data to compare with his statistical mechanics theories.



For thin interfaces, the thickness is linear with ellipticity  $\bar{\rho}$ .

At 90K the thickness is  $\sim 8\text{\AA}$ , at 120K about  $15\text{\AA}$ .

D.Beaglehole, Phys. Rev. Letters 43, 2016, 1979