a) MF. $f_2 = const.$ bp $\sim t^{+1/2}$; $f_3 \sim t^{-1/2}$; $f_3 \sim t^{-1/2}$; $f_4 \sim t^{-1/2}$; $f_5 \sim t^{-1/2}$; $f_7 \sim t^{-1/2}$; $f_8 \sim t$

And of course, the bulk compressitulity of a t It follows that the product

or the product

i.e. it vanishes, and is consistent with ME/for o and My. beyond MF. Now caution is required. a) Suppose we simply begin with the product Suppose

We know $0 \sim t$ from hypercaling

Thus in dom. d=3 on t^{28} Where $5 \sim t^{-8}$, t > 0And $8 \sim t^{-8}$, t > 0And X or to the Use the Fisher scaling relation: S = (2-7)xThen the product (d-U) - t 27-8 ~ t?

Which vanishes for d=3; but slowly: no 0.03 is small in d=3. and 2 = 0.63

Now start with (+5). This would arise from or tolon treatment. the product

The p Return to formula (85) and result for K_{\perp} within same talk theory (Souble quartic).

The compressibility is $K = P(P) \mu = P(P)$ In the present analysis.

Thus the product X = I P =Assume & refer to the bulk liquid) then

| " (p) / f = x 2

And at low T near triple point by = g= c= c= pe Then $\chi^{2} = \frac{1}{\chi^{2} 3(\xi + \xi_{g})}$ $= \frac{\xi^{2}/3(\xi + \xi_{g})}{\xi_{1}/3(\xi + \xi_{g})}$ = 3/(1+3/50) Typically Sols ~ 1/2 at low T. Thus

A typical value Top Se for an argon type fluid

mean the triple point is 5 ~ 0.6D. molec.

It follows that No = 0.13D (A)

which is fairly close to previous estimates.

The upshot is that, at low T. He product No should
be raighly constant and about 0.1 * fluid diameter

I This seems to be borne out by exp. sescults. Physicsis(A). Sq. Gradient theory + Double Countrie Pot. should capture Key features. (A) is very much a result pertaining to the buth compressibility K.

The larger is the tension 1stitler interface) The more likely is the compressibility to be small.