

Bi 1 - 2	Tl	Ba	Bi 3 - 5	Sn
25.4 $\pm 0,1$	36.7 $\pm 0,1$	55 $\pm 0,5$	78 ± 2	102 ± 4

The case of Fe is a little different because the nucleation of the transition seems to depend greatly upon the pressure gradients inside the cell, as shown by several people (26) the present apparatus gives stresses which are of a less uniaxial character as a Drickamer or a Bridgman anvil, which might explain the high value found : 140 ± 15 kbar.* It thus appears that Fe does not constitute a good reference metal

In order to fill up the gap in the high pressure scale , it would be desirable to find another reference element such as Germanium (30) (34).

* Recent experiments performed on Iron and Baryum samples lying side by side in the high pressure cell cast no doubt on the fact that the high baryum transition definitely occurs at a much lower load than the Iron transition, in our apparatus.