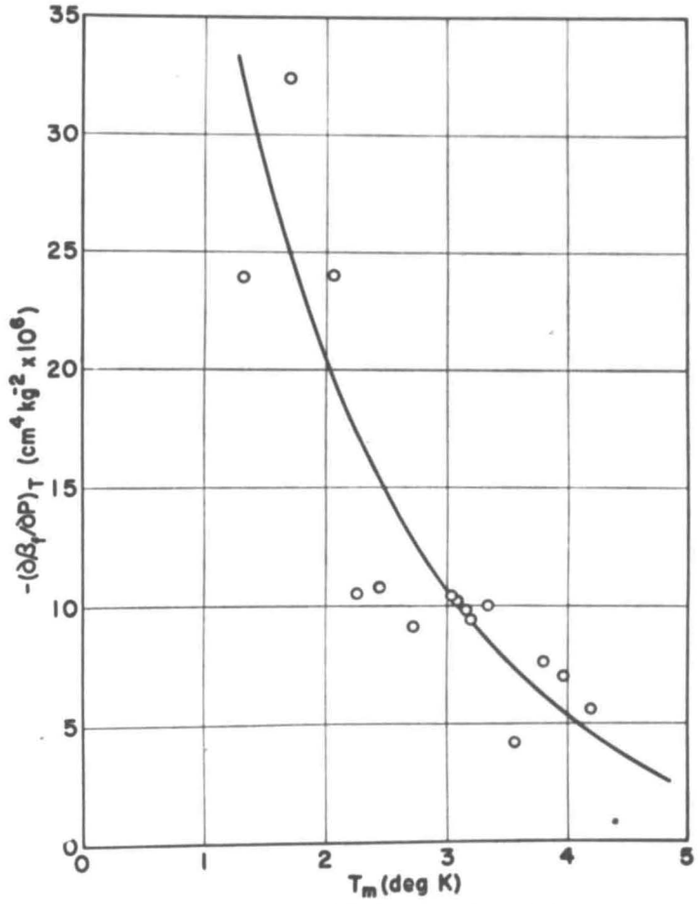

FIG. 7. $(\partial\beta_f/\partial P)_T$ for fluid He^3 along the melting curve.

efficient of the liquid changes from a positive value to a large negative value at $P_{m\lambda}$ (see, for example, Figs. 3 and 8). It is suggested that if expansion corrections were applied to Swenson's data, the break in his ΔV_m curve would be much sharper and in closer agreement with the present curve. The indirect ΔV_m data of Keesom and Keesom (*9*) from 46 to 133 kg/cm^2 have not been plotted in Fig. 2, but their ΔV_m curve would cross the present one at about 110 kg/cm^2, exhibiting maximum deviations of +9 percent at 46 kg/cm^2 and −6 percent at 123 kg/cm^2.

Each value of α_f along the melting curve was determined from a series of measurements made at constant pressure and extrapolated to the melting tem-