

FIG. 1. The phonon spectrum  $\alpha^2(\omega) F(\omega)$  of Pb at P=0 (black line) and P=3445 bar (dashed line).

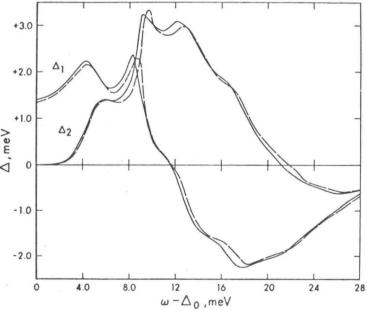


Fig. 2. Real part,  $\Delta_1$ , and imaginary part,  $\Delta_2$ , of the gap function of Pb. P=0, black lines, P=3445 bar, dashed lines.

In Fig. 2 we give the complex gap function  $\Delta(\omega) = \Delta_1(\omega) + i\Delta_2(\omega)$  as function of energy and pressure. The phonon emission resonances are shifted to higher energies and somewhat reduced under pressure, indicating a move towards weaker coupling.

The Coulomb pseudo-potential,  $U_c$ , obtained from the inversion program is 0.12 at P=0 and 0.14 at P=3445 bar. This result is in good agreement with McMillan and Rowells' result, and also with the theoretical estimate of  $U_c\simeq 0.11$ . It should be stated, however, that

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