E [kHz]

141.095 — $F = 3$
105.876 — $F = 2$

$J = 2$

-172.936 — $F = 2$
-217.455 — $F = 1$

68.985 — $F = 2$
54.446 — $F = 1$

$J = 1$

-121.506 — $F = 1$
-143.745 — $F = 0$

9.975 — $F = 0$
-3.325 — $F = 1$

$J = 0$

Figure 1: TlF ground state zero-field energy levels. NB: Rotational energies $BJ(J+1)$ are subtracted from the energies indicated on the axis.