

Figure 6: p_x vs ω . At a point $r \neq 0$

Figure 6 consists of a hand-drawn diagram of a quantum dot (QD) and its energy levels, a table of parameters, and two plots of the real and imaginary parts of the polarizability versus frequency.

The diagram shows a QD with energy levels $A_3(III)$ and $A_4(III)$, and a wavelength $\lambda = 0.736 \mu m$.

The table lists parameters:

E_1	12
v	$c/400 \mu m/s$
x	$0 \mu m$
y	$0 \mu m$
b	$-2.00 \mu m$
E_2	2.4
E_{bulk}	9.17 eV
$h\nu$	0.0001 eV
z_p	2.00 μm
z	0 μm
k	0.10 ω_0
k_r	0.50 k
ω_0	0.10 THz
E_p	4
d	0.0001 μm

The plots show the real part (a) and imaginary part (b) of the polarizability versus frequency ω [THz].