Effects of linear and nonlinear piezoelectricity on the electronic properties of InAs/GaAs quantum dots

[illegible] B [illegible],[1] A[illegible] [illegible],[1] [illegible],[2] D [illegible][2]

[1]*Na a R v a E La a , G , C a 80401, USA*

[2]*D a P f a A , R U i f , P a a v a , N v J 08854, USA*

(2 2006; 22 A t 2006)

[illegible]

D 10.1103/ B.74.081305 AC ( ): 78.67. , 73.21. , 73.22. , 71.15.

[illegible] $\delta a = a - a_0$ [illegible] a [illegible] a_0 [illegible].[1] [illegible] (., , [illegible]) [illegible] ($\delta a/a$ 2%) a/a

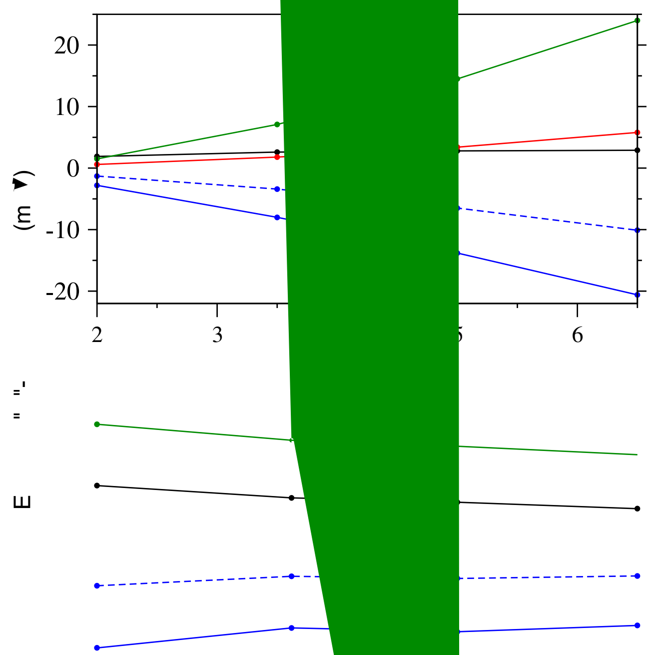
[10]).

[11]

( )

[12,13]

F 1 [E . (2



P [illegible]) $=$ [illegible] $(P_{[110]} - P_{[110]})$. [illegible] V [illegible] C_{2v} [illegible] . 6 [illegible]); [illegible] B [illegible] E . (1) [illegible] E . (1) [illegible] F . 3 [illegible] V [illegible] 0 t 6 [illegible] P [illegible] [110] [illegible] 2 5 [illegible]

[illegible] 5. [illegible] F [illegible] 4 [illegible] [001] [illegible] A [illegible] 25 [illegible] 5 [illegible] $|\psi(\mathbf{r})|^2 - |\psi(\mathbf{r})|^2$ [illegible] 1.7% t 10.4%, [illegible] F [illegible] [001] [illegible] D [illegible] [110] [illegible] [110]. [illegible]

t *P***t**