

$\lambda \text{ (nm)}$

620

1861

3102

4343

5584

6825

 $A_{\text{opt}}(\hbar\omega)$
$$\hat{\mathbf{e}} = \hat{\mathbf{x}}$$
$$\beta = 2.3$$
 $2s$ $1s$
$$\beta = 0.5$$
$$\beta = 1.8$$
$$\beta = 0$$
 $\hbar\omega$ (eV)