

Structures Report

Reinaldo Zapata

1 Up (graphone)

sec:up

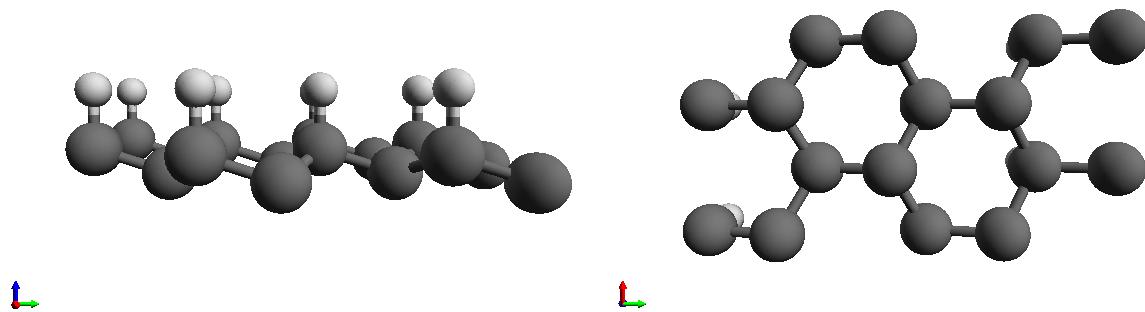


Figure 1: Up structure

fig:upstruc

1.1 \mathcal{V}^{xb} energy range 0.0–0.2 eV

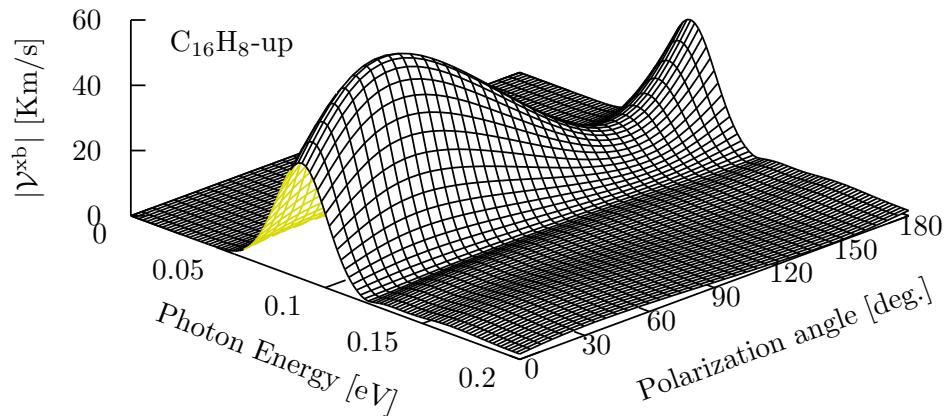


Figure 2: The most intense response for \mathcal{V}^{xb} is for 40°.

fig:up-magvxbincang1

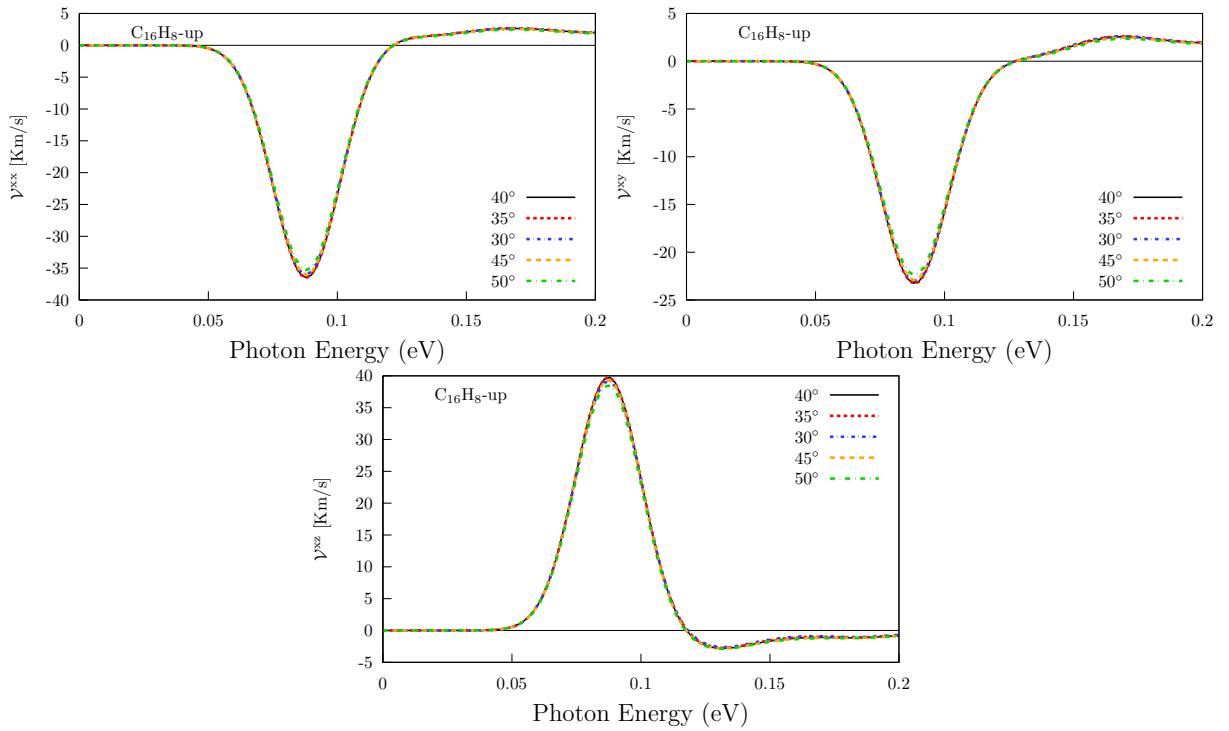


Figure 3: Cheking angle of incidence for xb components for up structure. [fig:up-xbangcomp](#)

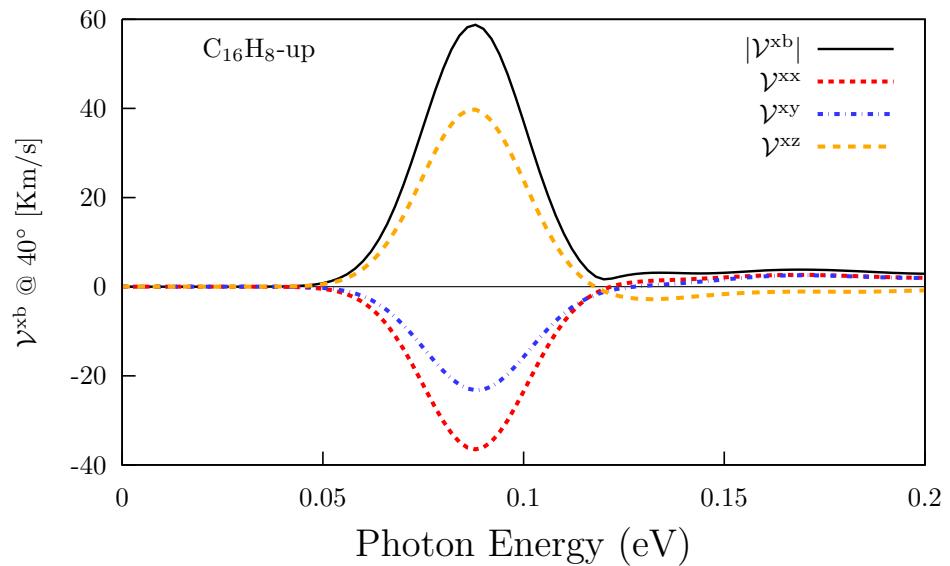


Figure 4: Three components of \mathcal{V}^{xb} @ 40° . [fig:up-vxb1](#)

1.2 \mathcal{V}^{yb} energy range 0.0–0.2 eV

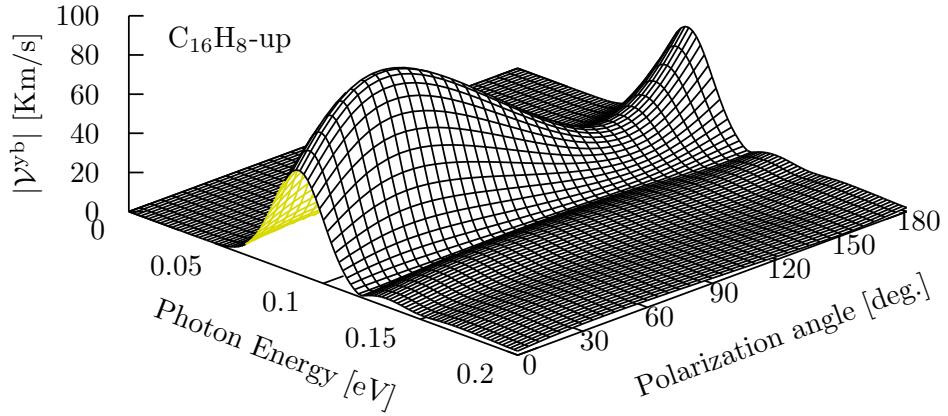


Figure 5: The most intense response for \mathcal{V}^{yb} is for 40° .

`fig:up-magvybincang1`

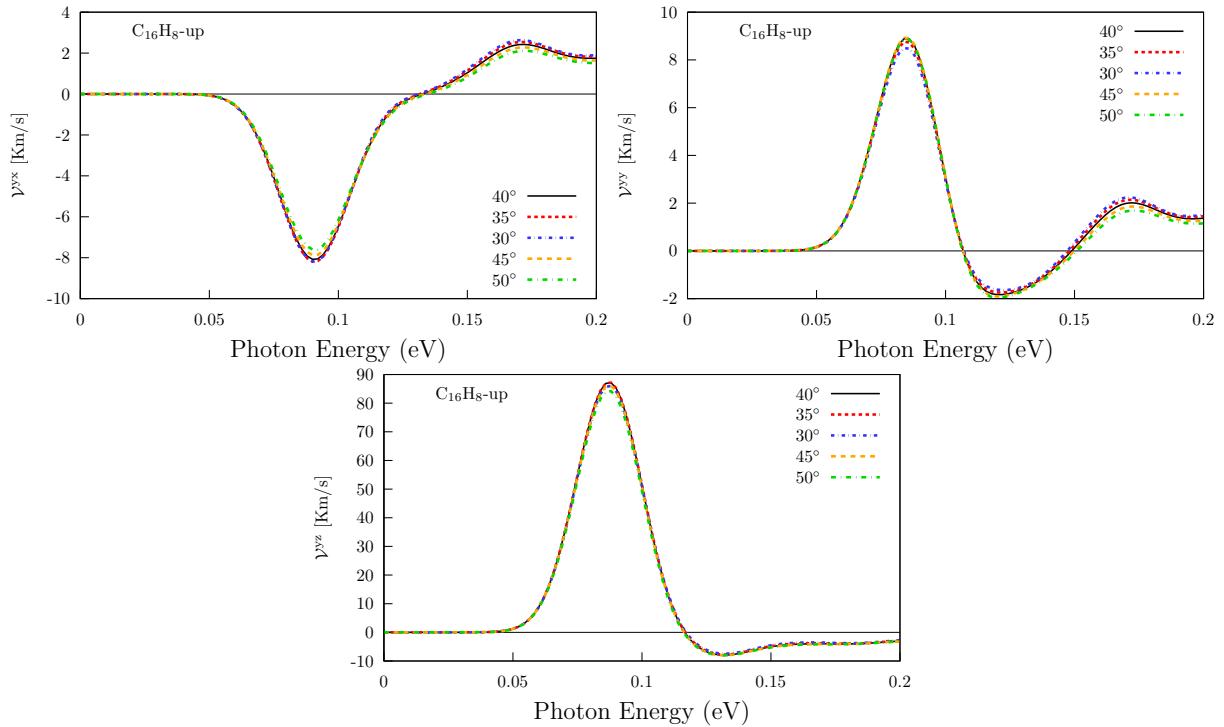
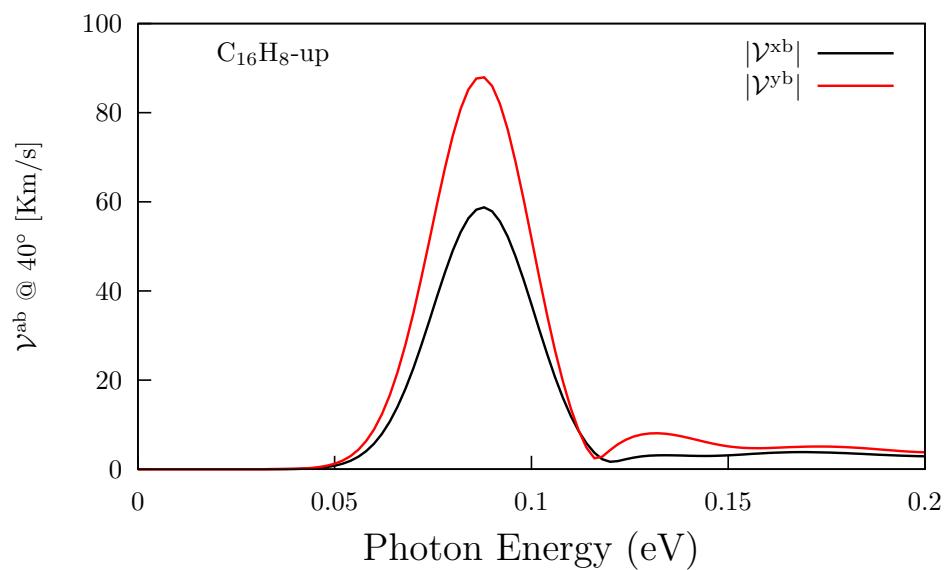
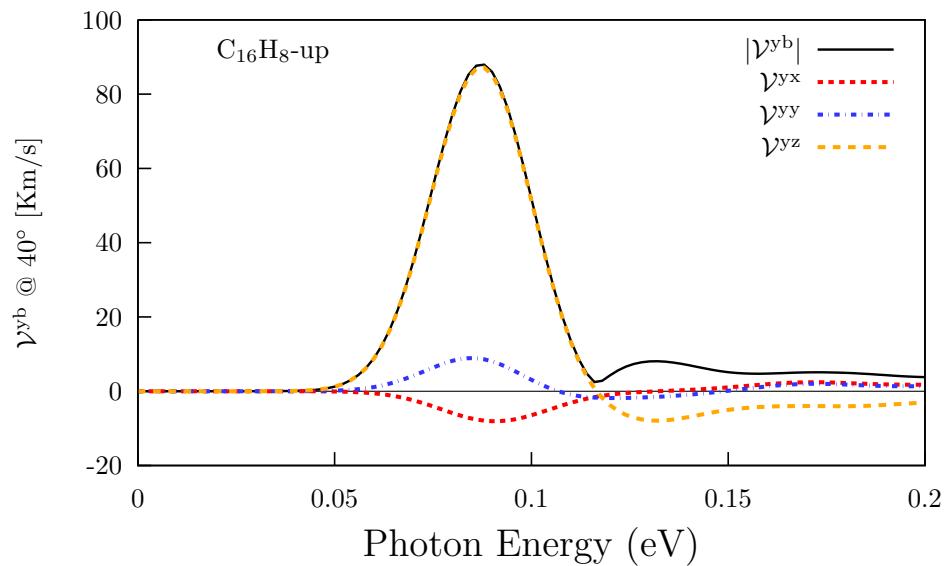


Figure 6: Cheking angle of incidence for yb components.

`fig:up-ybangcomp`



1.3 \mathcal{V}^{xb} energy range 1.8–2.1 eV

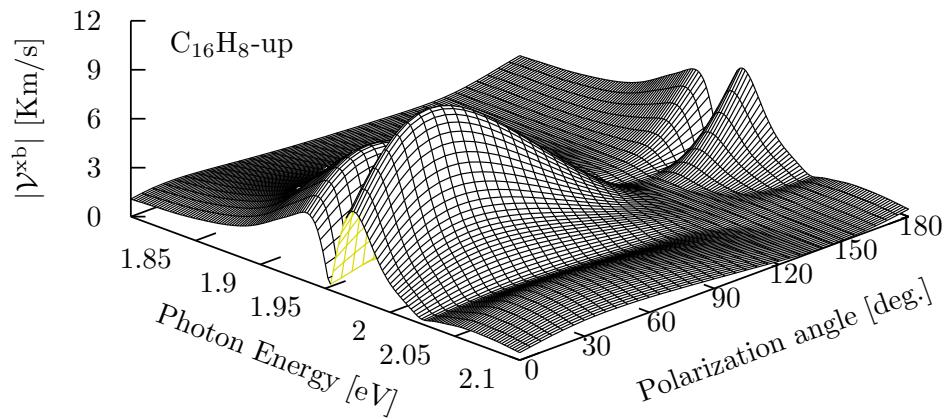


Figure 9: The most intense response for \mathcal{V}^{xb} is for 40°.

`fig:up-magxbincang2`

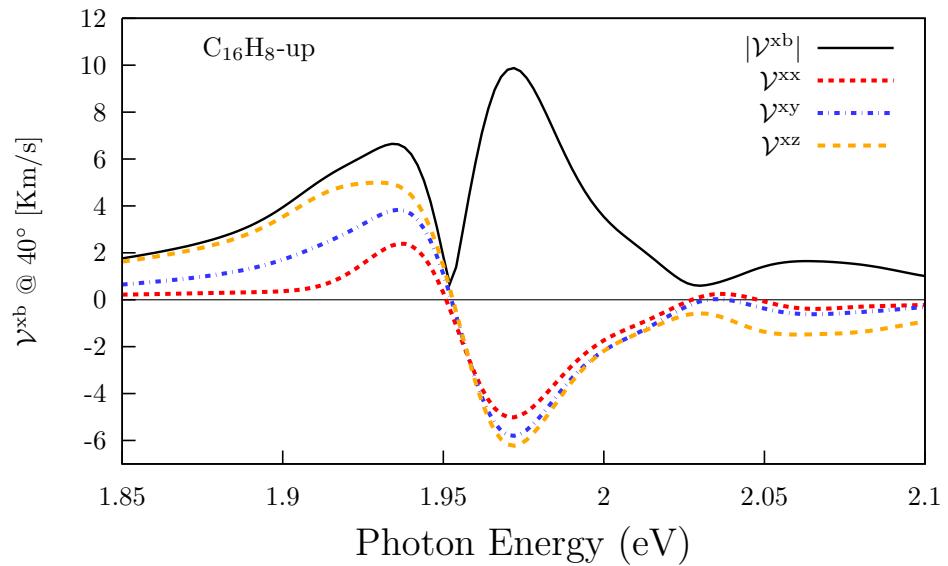


Figure 10: Three components of \mathcal{V}^{xb} @ 40°.

`fig:up-vxb2`

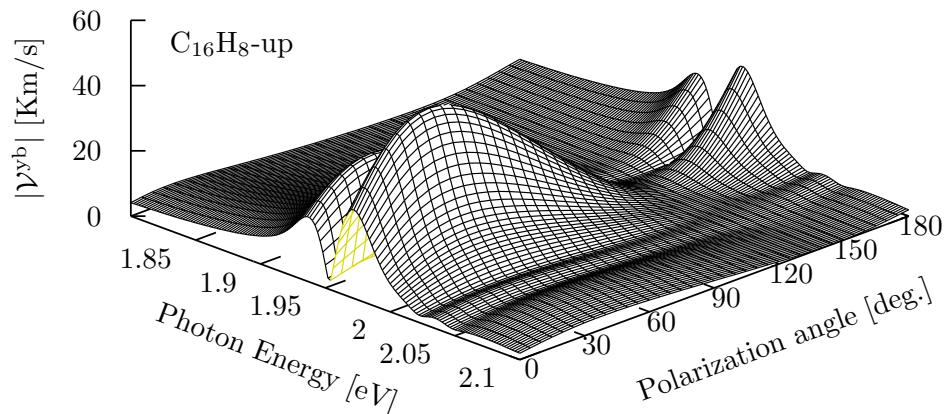


Figure 11: The most intense response for \mathcal{V}^{yb} is for 40°.

`fig:up-magybincang2`

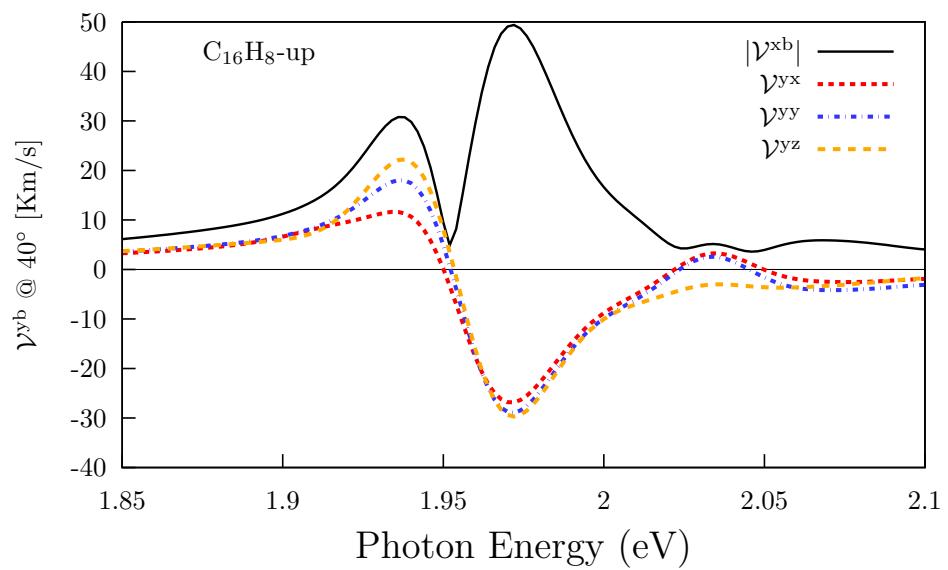


Figure 12: Three components of \mathcal{V}^{yb} @ 40°.

`fig:upvyb2`

1.4 $|\mathcal{V}^{ab}|$, angles θ and φ , layers, and comparison with CdSe and GaAs for the energy range of 0.0–0.2 eV.

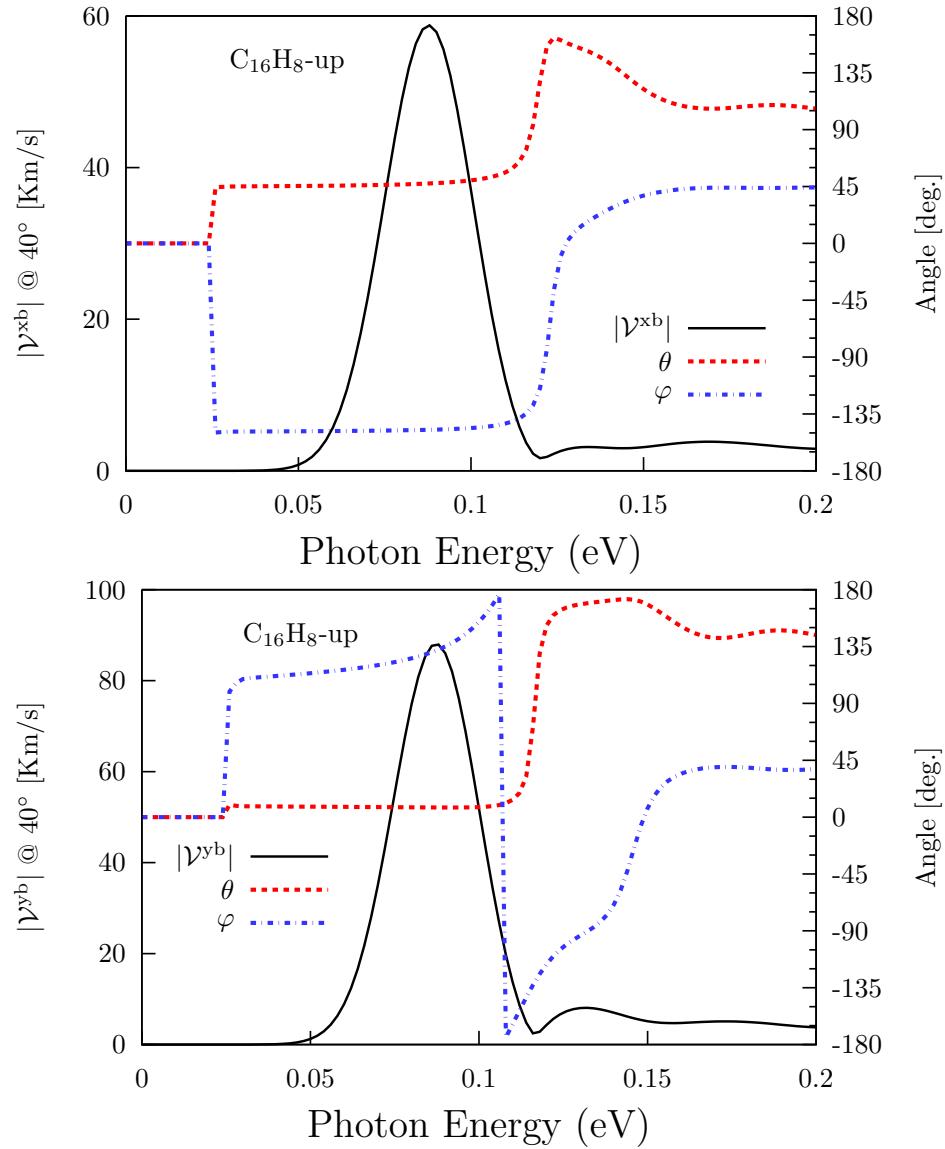


Figure 13: $|\mathcal{V}^{ab}|$ (solid line, leftside scale) and the corresponding angles θ and φ (dashed lines, rightside scale) for C₁₆H₈-up. Fig.13_tp1

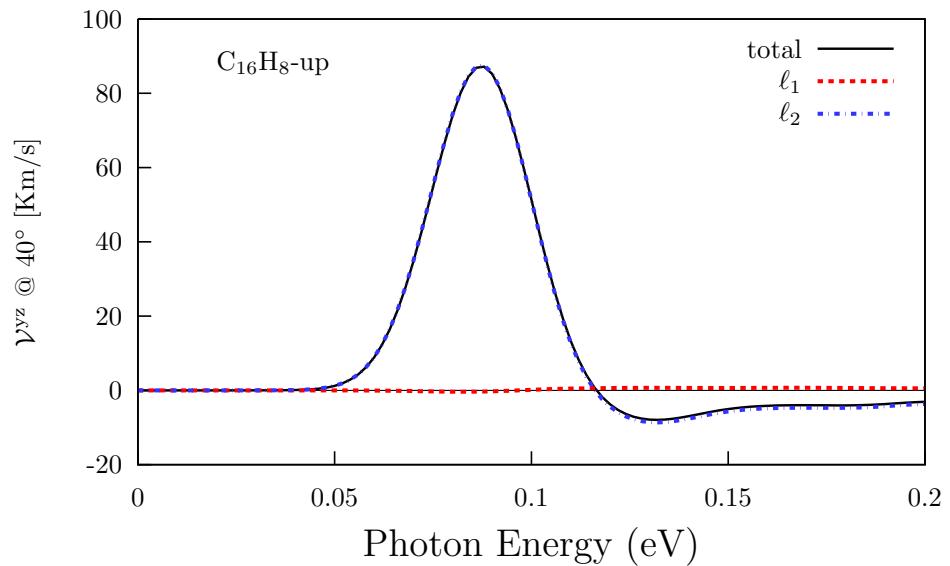


Figure 14: Layer decomposition for the most intense response: \mathcal{V}^{yz} .

`fig:up-lay1`

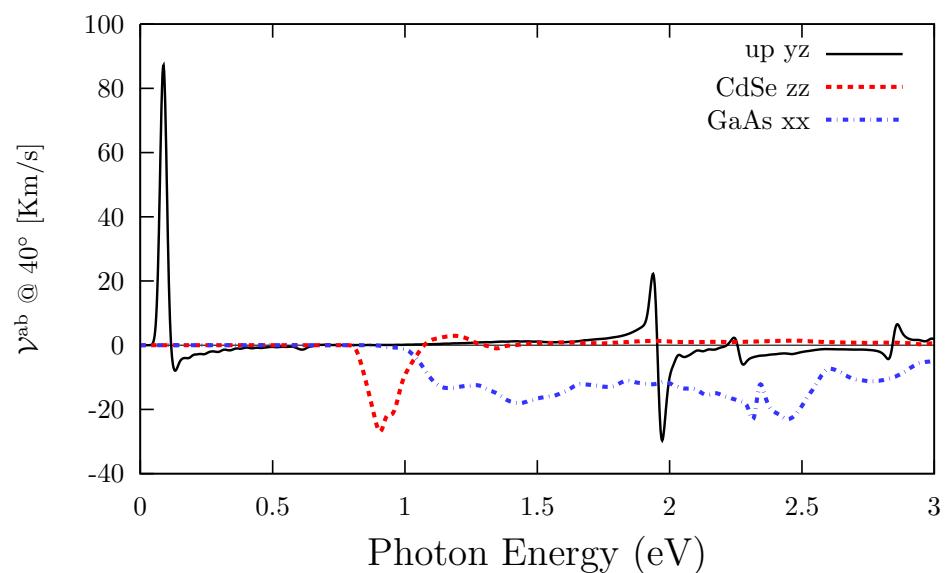


Figure 15: Comparissoin of the most intense response vs the most intense responses of CdSe and GaAs.

`fig:up-comp1`

1.5 $|\mathcal{V}^{ab}|$, angles θ and φ , layers, and comparison with CdSe and GaAs for the energy range of 1.8–2.1 eV

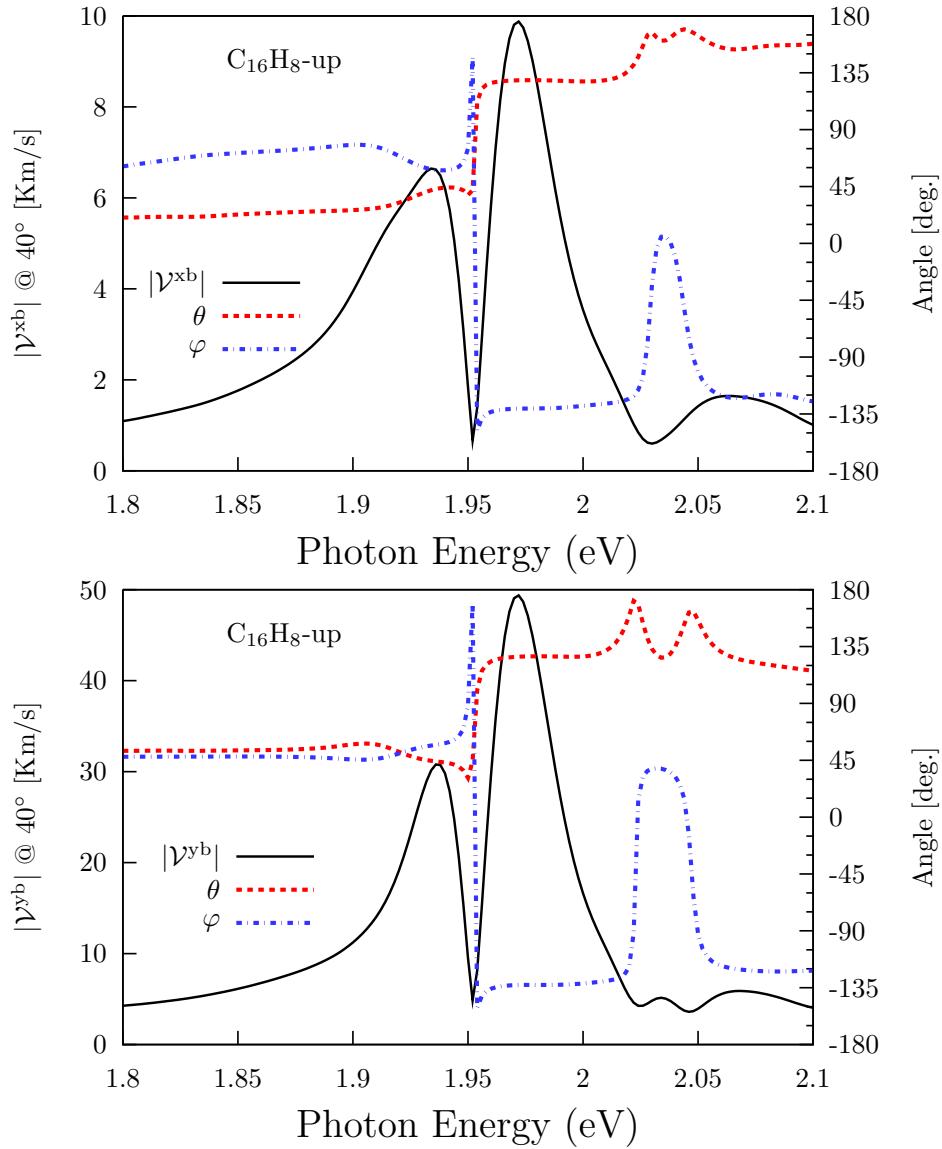


Figure 16: $|\mathcal{V}^{ab}|$ (solid line, leftside scale) and the corresponding angles θ and φ (dashed lines, rightside scale) for $\text{C}_{16}\text{H}_8\text{-up}$.

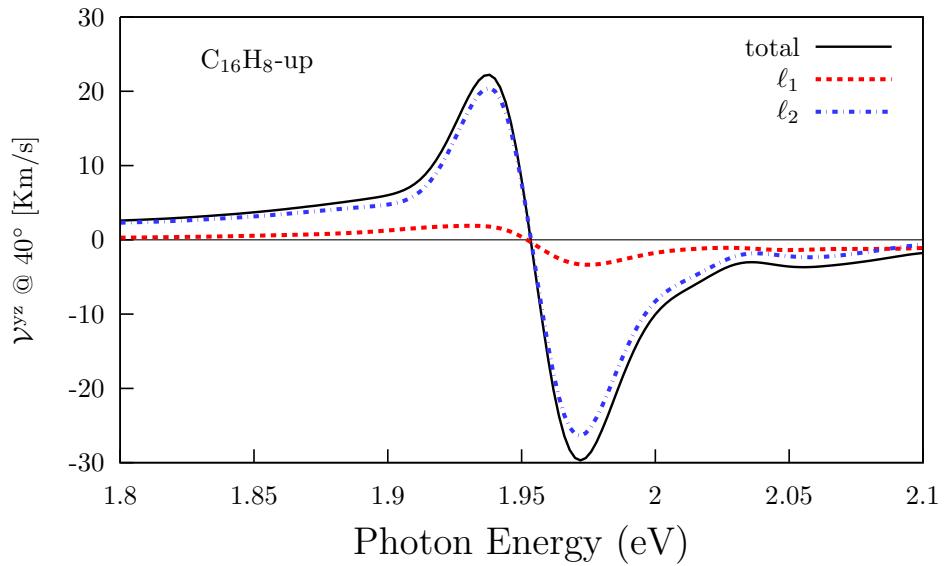


Figure 17: Layer decomposition for the most intense response: \mathcal{V}^{yz} .

`fig:up-lay2`

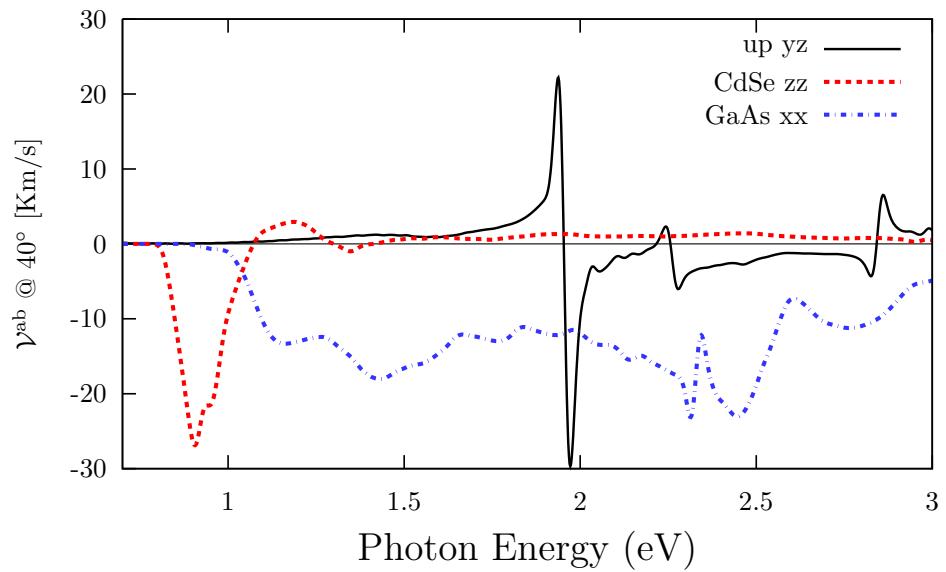
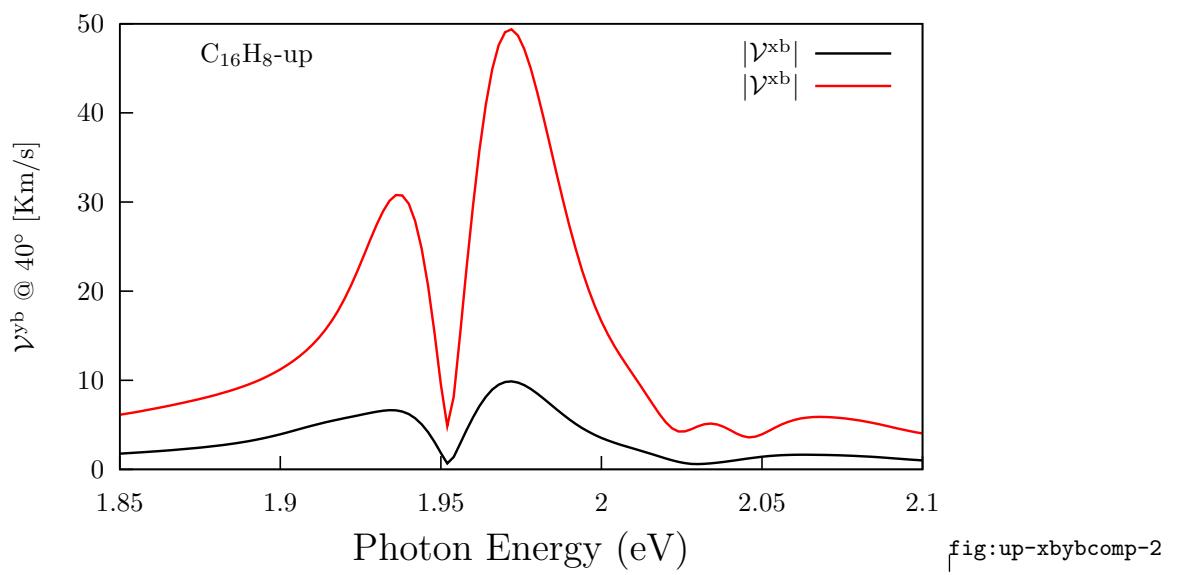


Figure 18: Comparissoin of the most intense response vs the most intense responses of CdSe and GaAs.

`fig:up-comp2`



2 alt

sec:alt

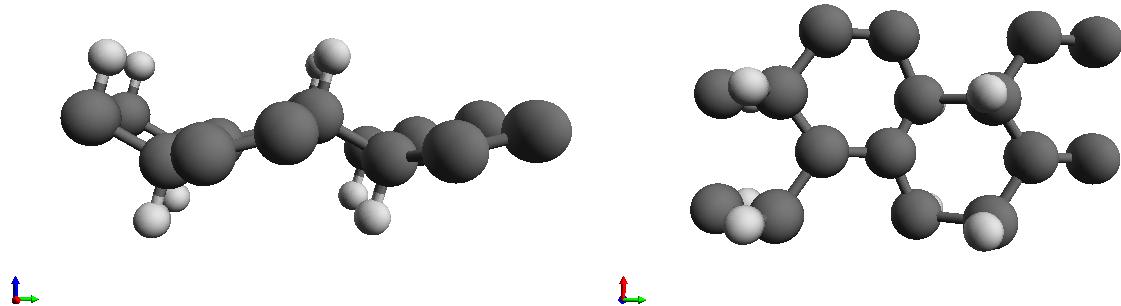


Figure 19: Alt structure.

fig:altstruc

2.1 \mathcal{V}^{xb}

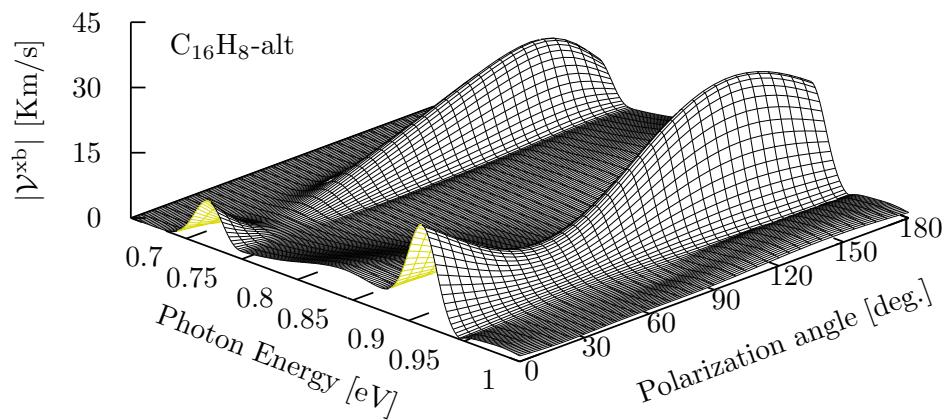


Figure 20: The most intense response for \mathcal{V}^{xb} is for 145°.

fig:alt-magvxbincang

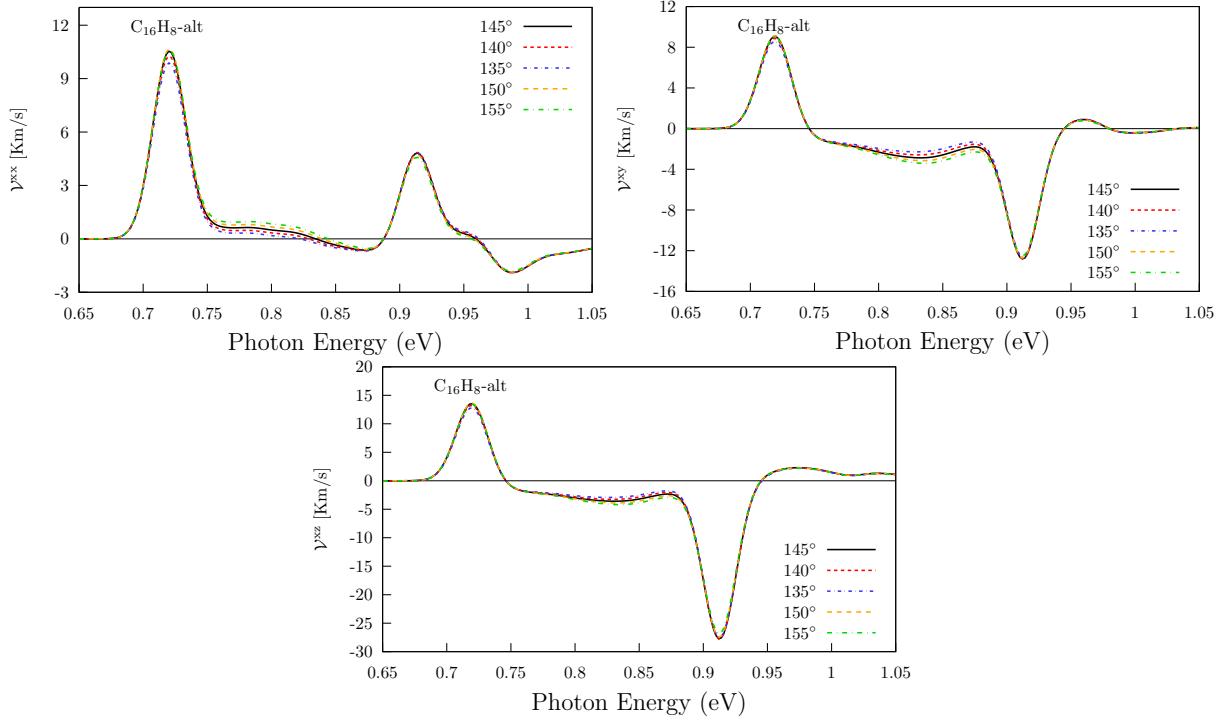


Figure 21: Cheking angle of incidence for xb components.

`fig:alt-xbangcomp`

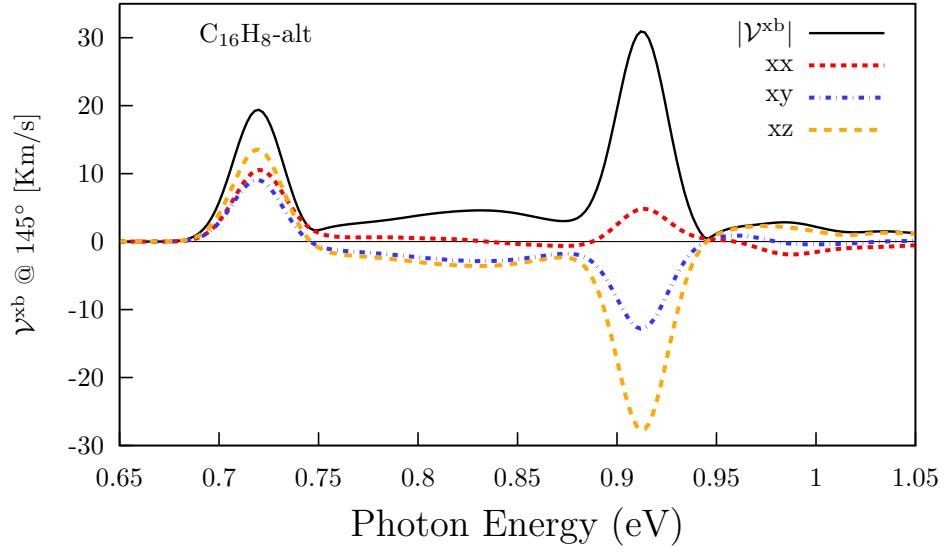


Figure 22: Three components of \mathcal{V}^{xb} @ 145° .

`fig:alt-vxb1`

2.2 \mathcal{V}^{yb}

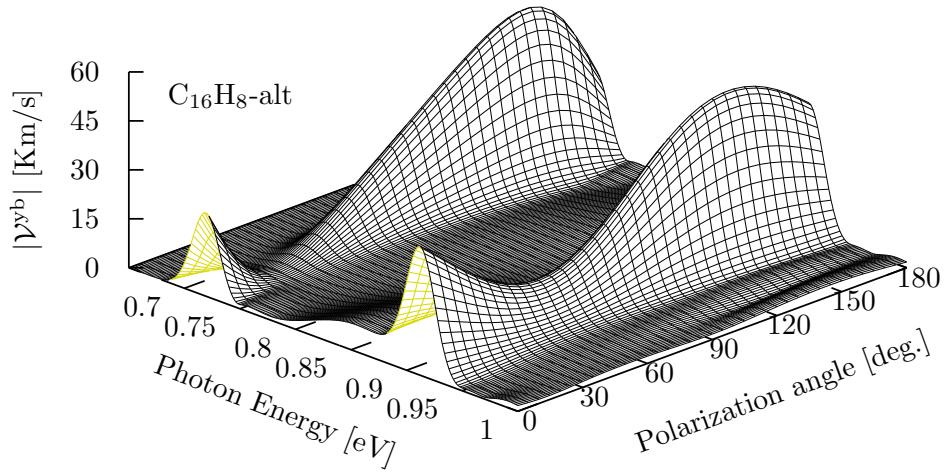


Figure 23: The most intense response for V^{yb} is for 145° .

`fig:alt-magvybincang1`

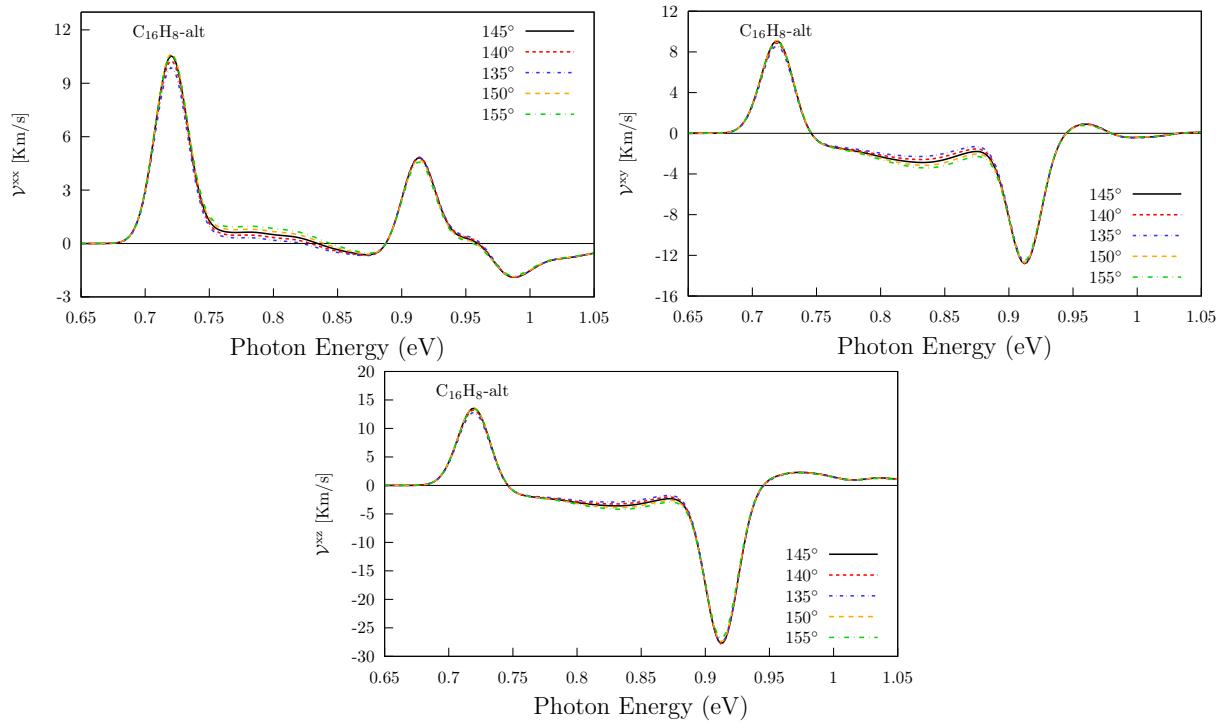


Figure 24: Cheking angle of incidence for yb components.

`fig:alt-ybangcomp`

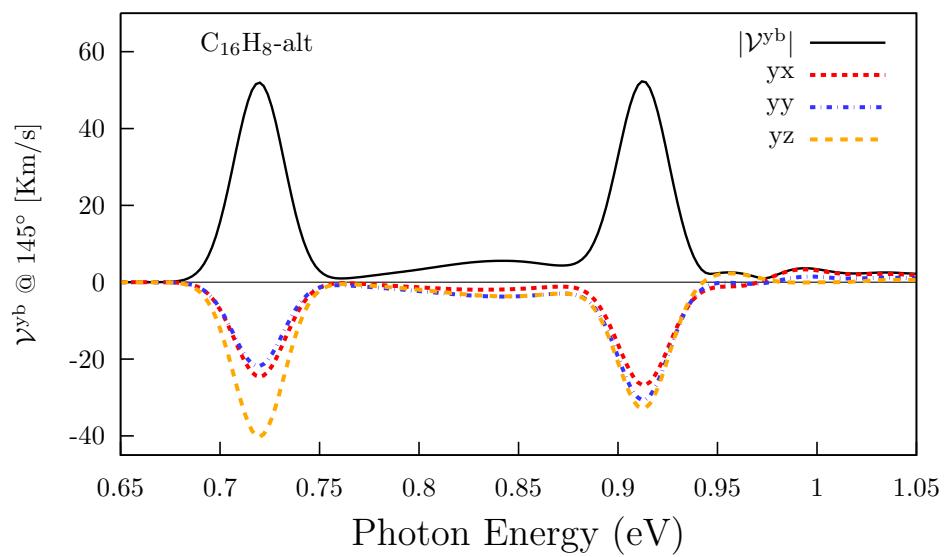


Figure 25: Three components of V^{yb} @ 145° .

`fig:alt-vyb1`

2.3 $|\mathcal{V}^{ab}|$, angles θ and φ , layers, and comparison with CdSe and GaAs.

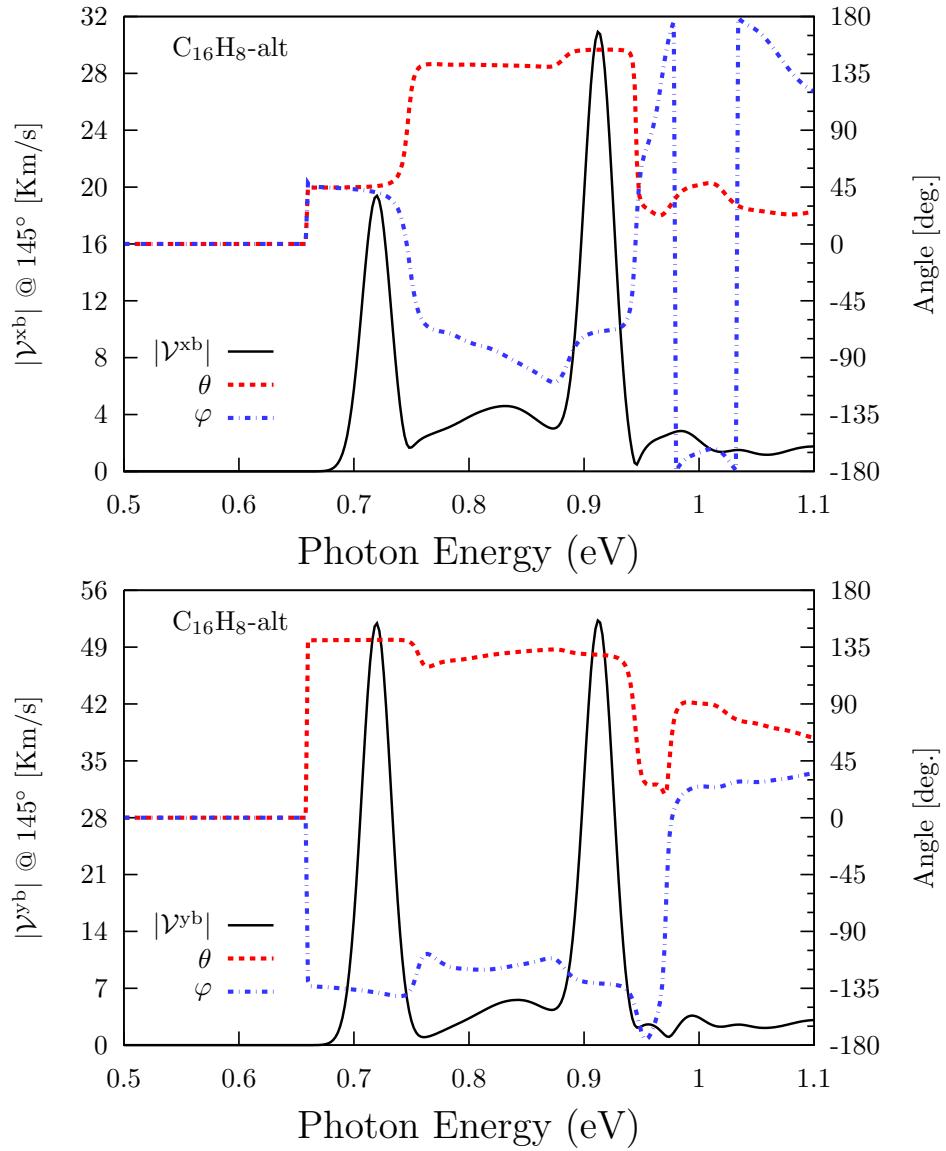


Figure 26: $|\mathcal{V}^{ab}|$ (solid line, leftside scale) and the corresponding angles θ and φ (dashed lines, rightside scale).

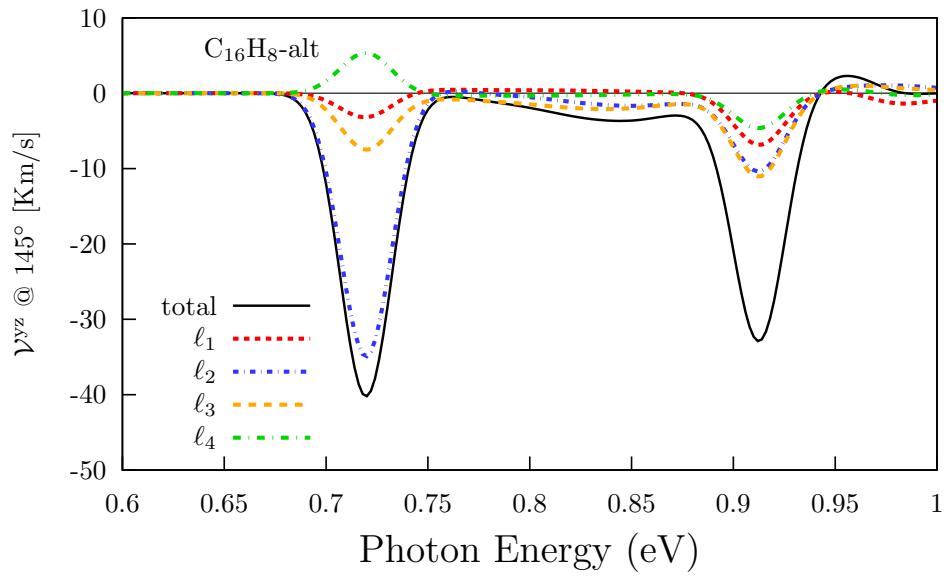


Figure 27: Layer decomposition for the most intense response: \mathcal{V}^{yz} .

fig:alt-lay

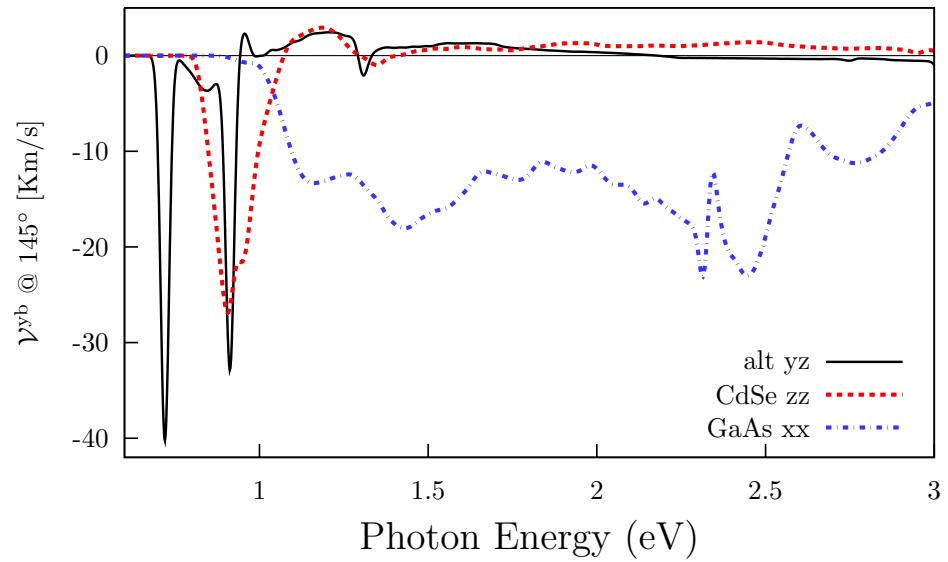


Figure 28: Comparissoin of the most intense response vs the most intense responses of CdSe and $C_{16}H_8$ -alt.

fig:alt-comp

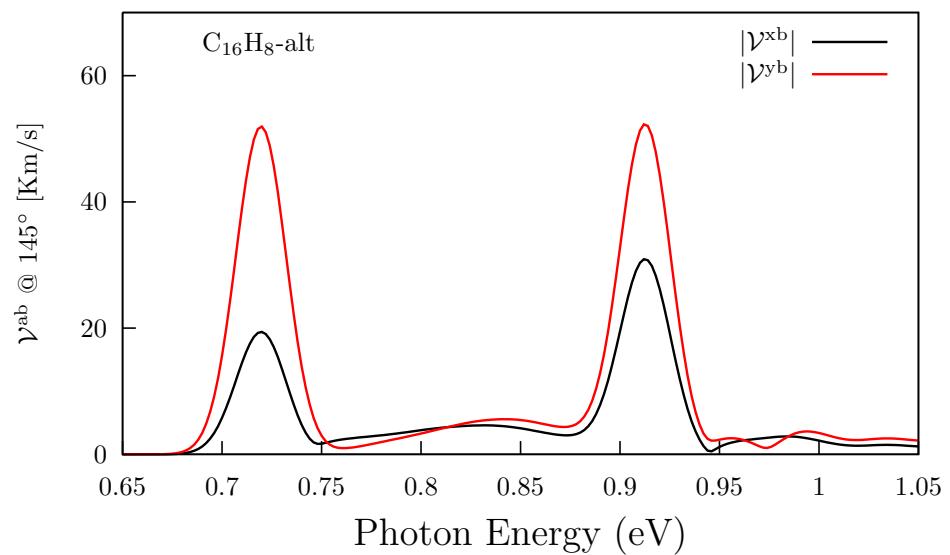


Figure 29: Comparisson of $|\mathcal{V}^{xb}|$ and $|\mathcal{V}^{yb}|$

`fig:alt-xbybcomp`

3 HN₂C₂H-aa

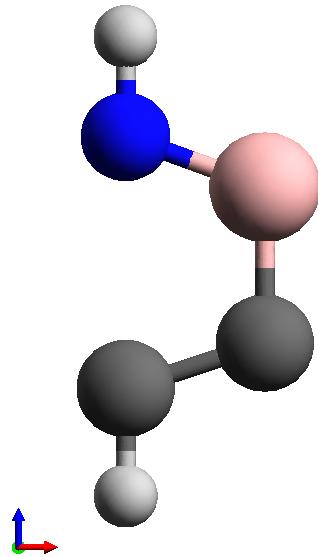


Figure 30: HN₂C₂H-aa structure

fig:aastruc

3.1 \mathcal{V}^{xb}

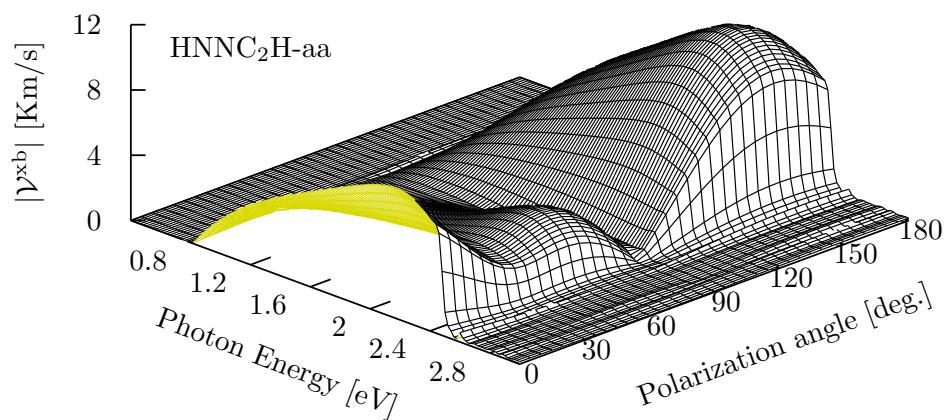


Figure 31: The most intense response for \mathcal{V}^{xb} is for 155° .

fig:aa-magvxbincang

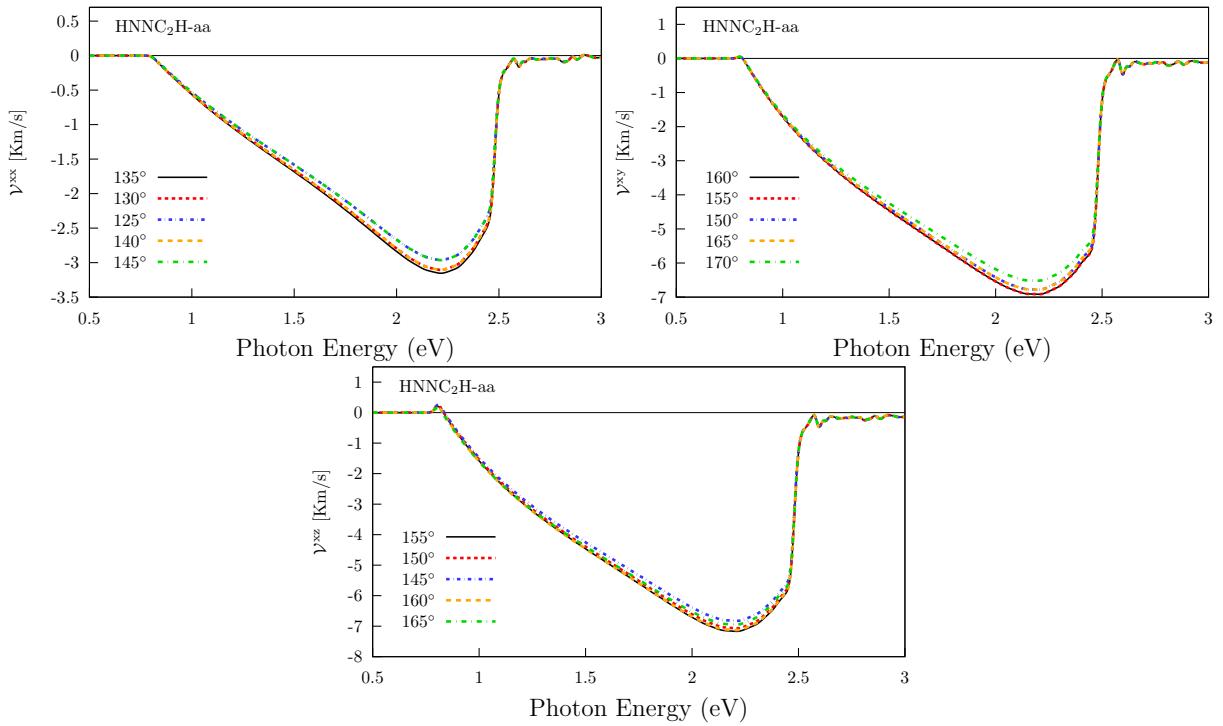


Figure 32: Cheking angle of incidence for xb components. There is a different angle for each component to have the most intense response.

`fig:aa-xbangcomp`

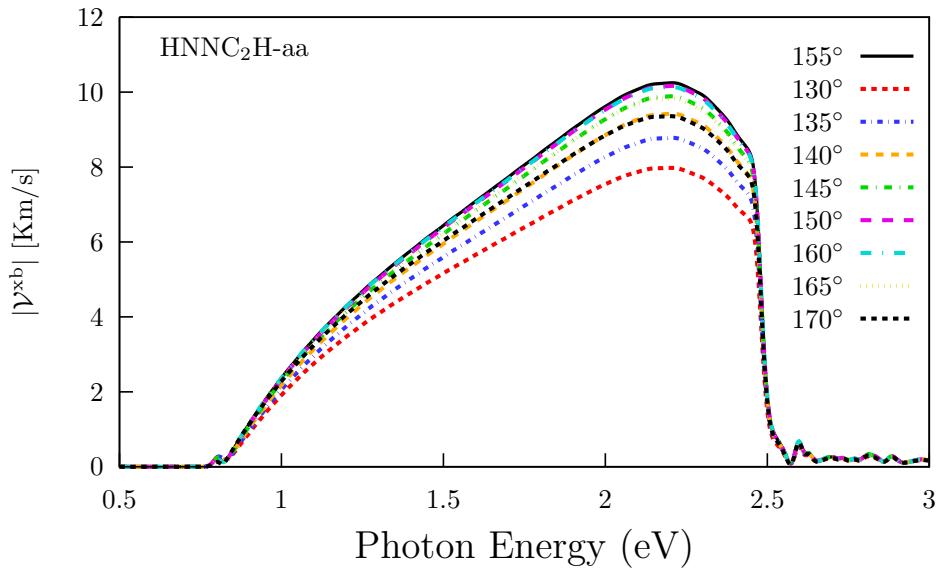


Figure 33: Comparissson of $|V_{x^b}|$ for different polarization angles.

`fig:aa-magvxb`

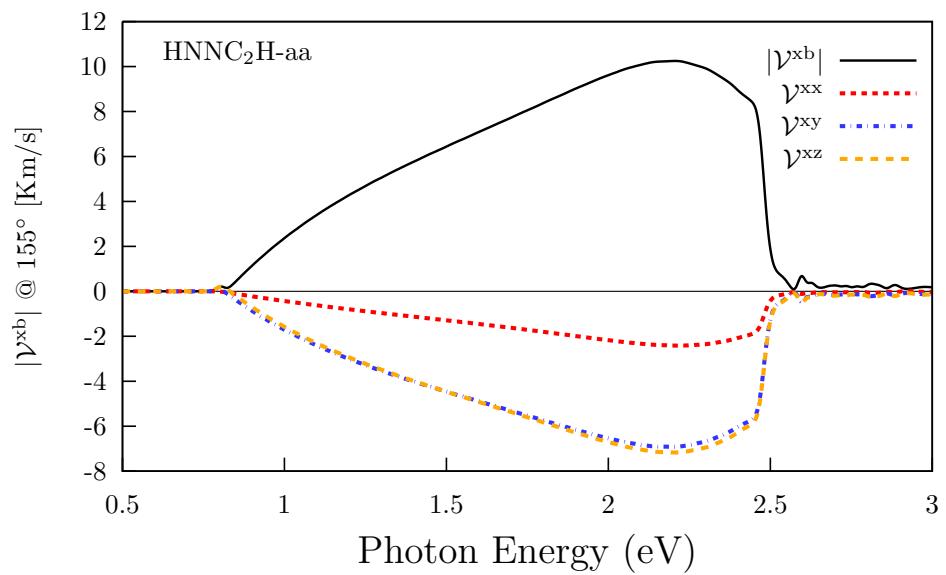


Figure 34: Three components of \mathcal{V}^{xb} @ 155° .

`fig:aa-vxb1`

3.2 \mathcal{V}^{yb}

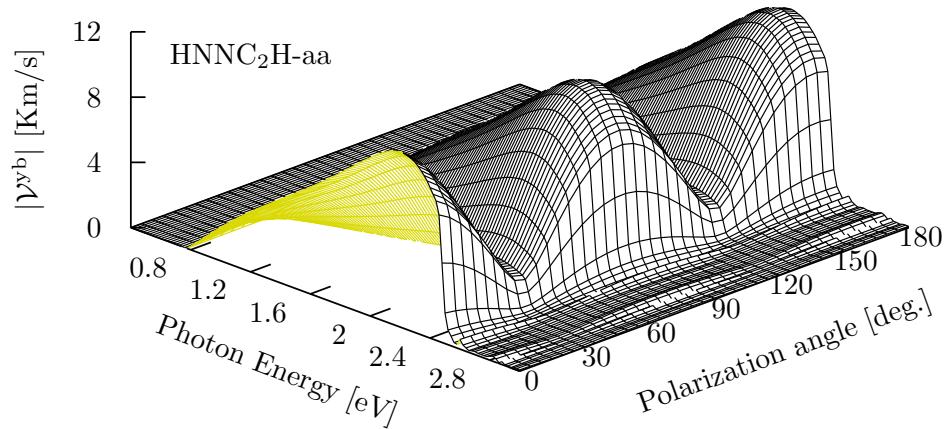


Figure 35: The most intense response for \mathcal{V}^{yb} is for 155° .

`fig:aa-magvybincang`

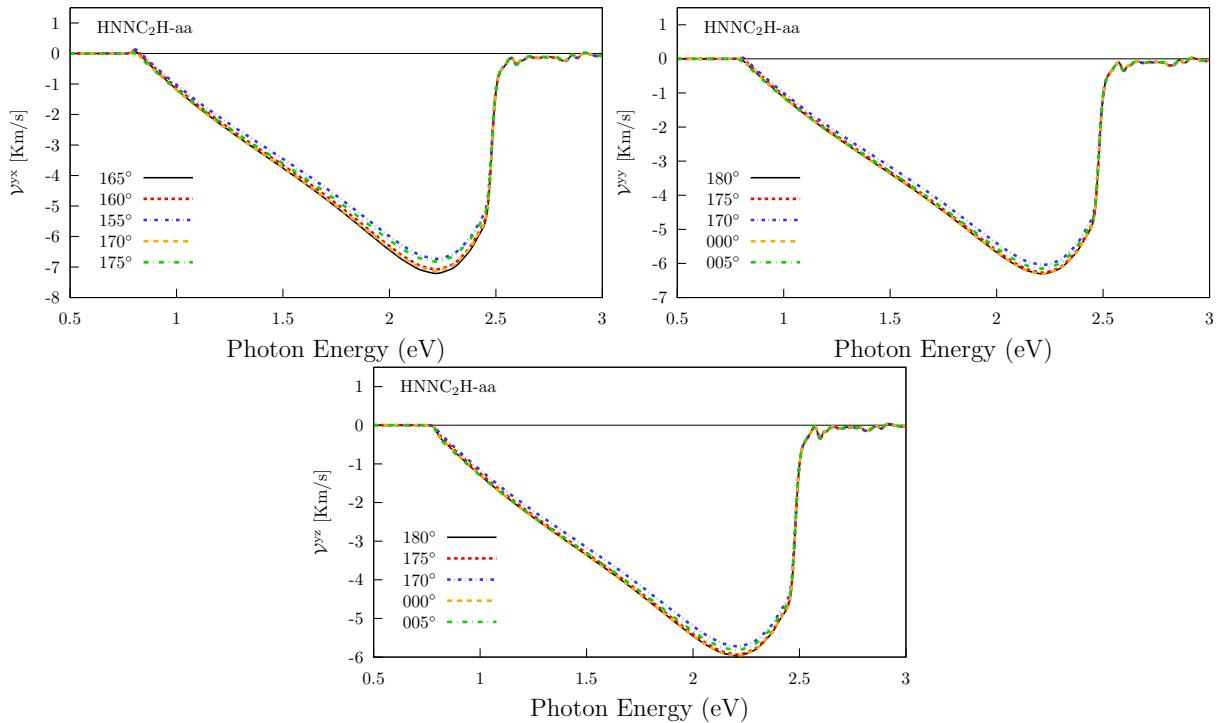


Figure 36: Cheking angle of incidence for yb components. There is a different angle for each component to have the most intense response.

`fig:aa-ybangcomp`

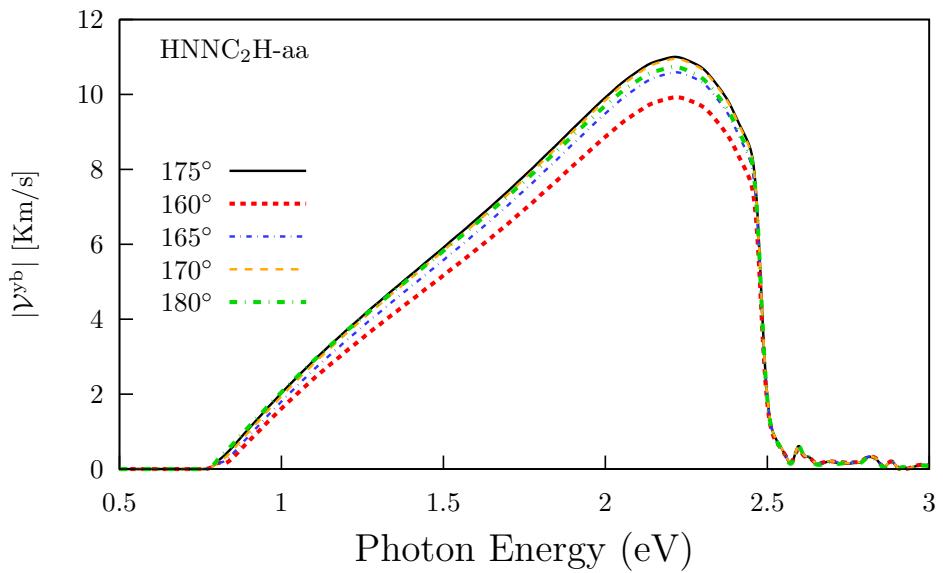


Figure 37: Comparisson of $|V^{yb}|$ for different polarization angles.

fig:aa-magvyb

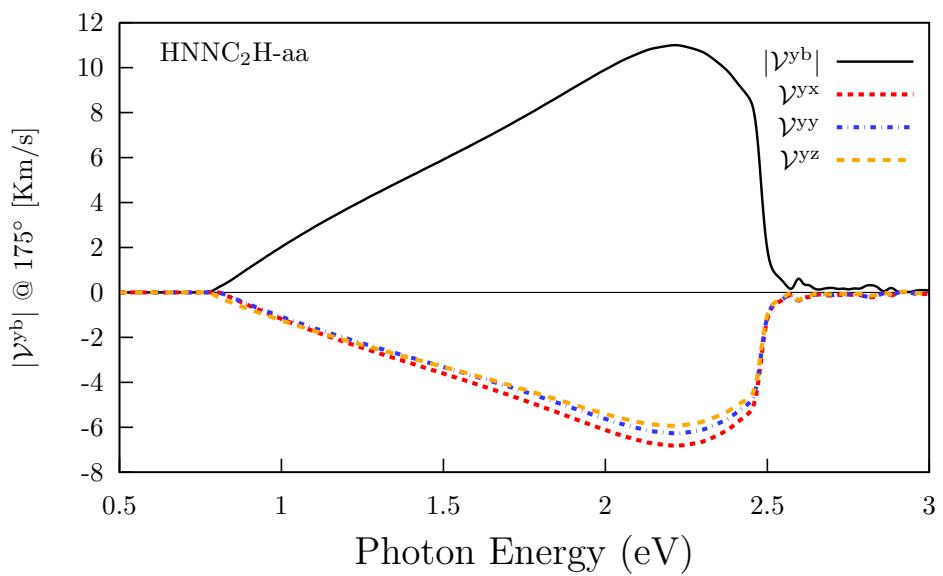


Figure 38: Three components of V^{yb} @ 175°.

fig:aa-vyb2

3.3 $|\mathcal{V}^{ab}|$, angles θ and φ , layers, and comparison with CdSe and GaAs.

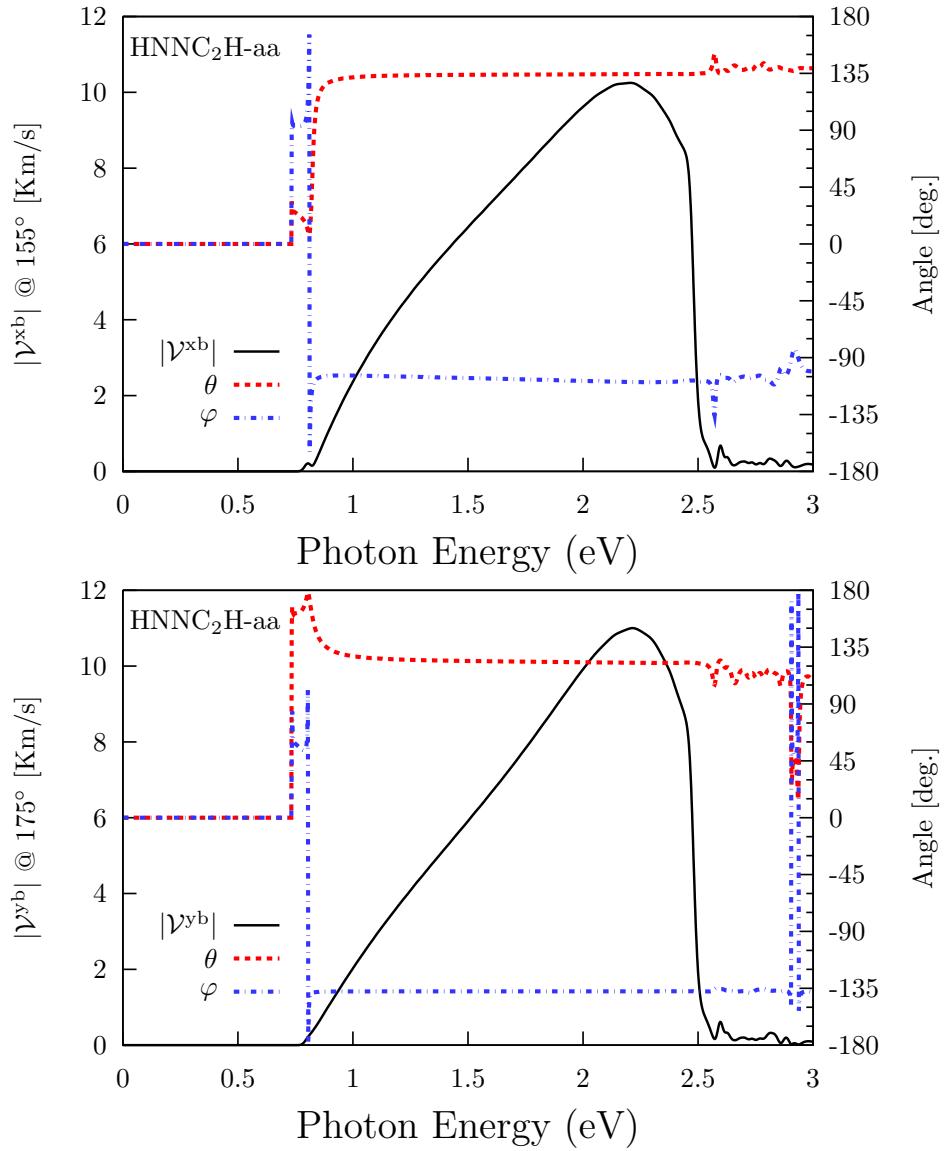


Figure 39: $|\mathcal{V}^{ab}|$ (solid line, leftside scale) and the corresponding angles θ and φ (dashed lines, rightside scale). Fig:aa_rtp

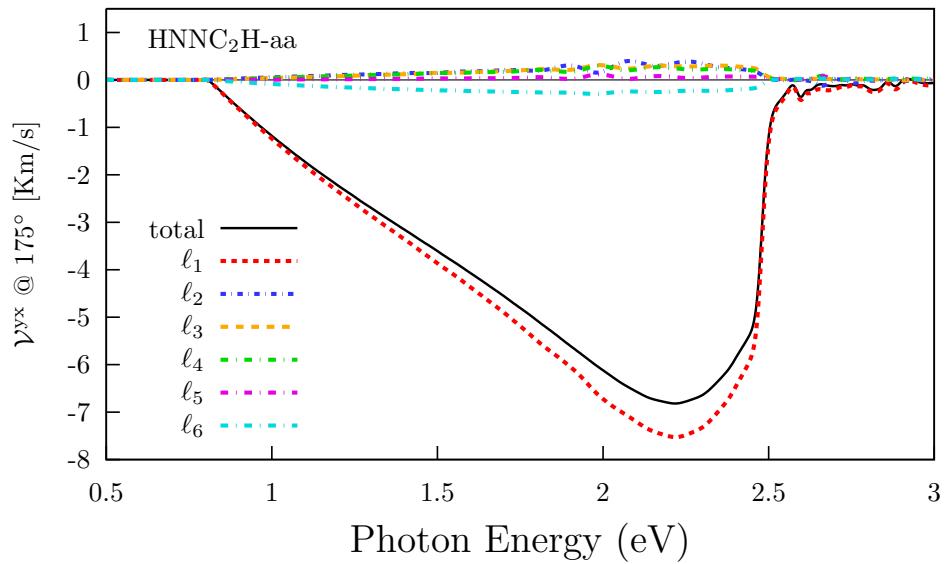


Figure 40: Layer decomposition for the most intense response: \mathcal{V}^{yz} .

[fig:aa-lay](#)

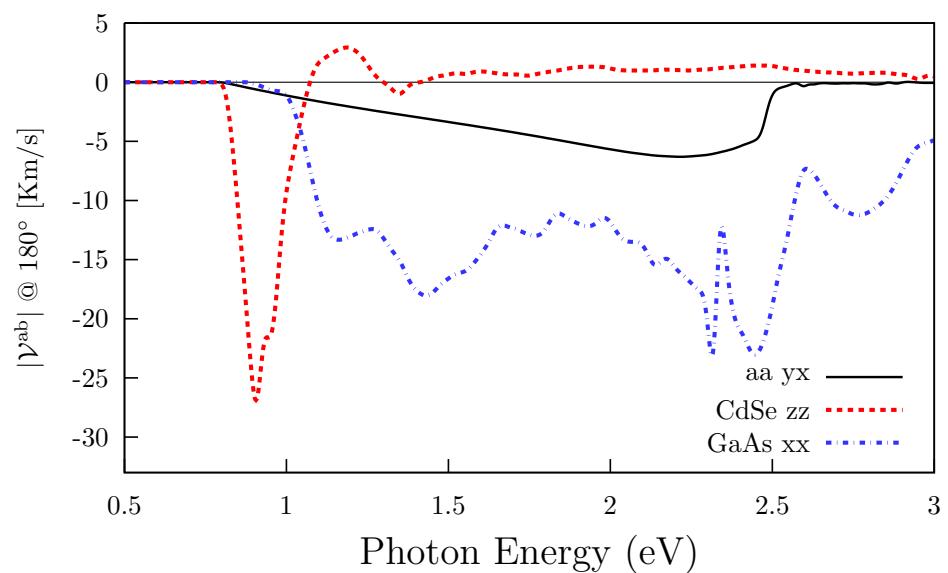


Figure 41: Comparison of the most intense response vs the most intense responses of CdSe and GaAs.

[fig:aa-comp](#)

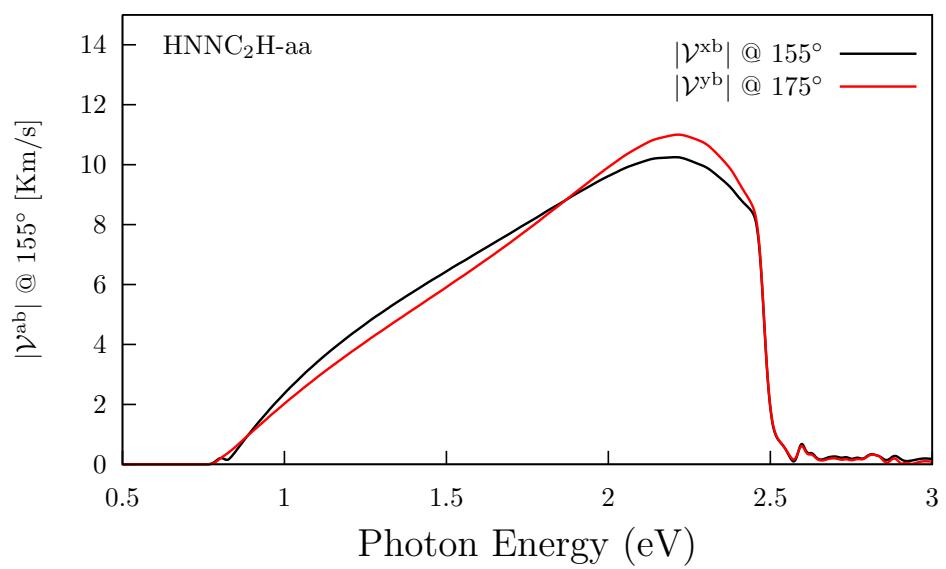


Figure 42: Comparisson of $|\mathcal{V}^{xb}|$ and $|\mathcal{V}^{yb}|$.

`fig:aa-xbybcomp`

4 HN₂C₂H-ab

sec:ab

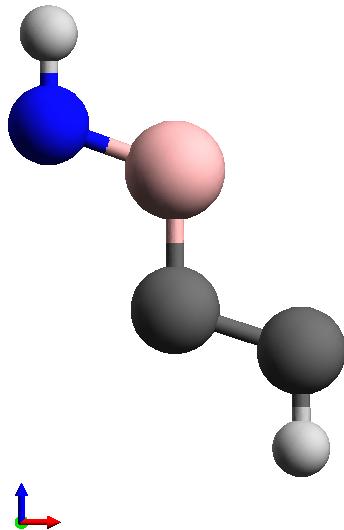


Figure 43: HN₂C₂H-ab structure

fig:abstruc

4.1 \mathcal{V}^{xb}

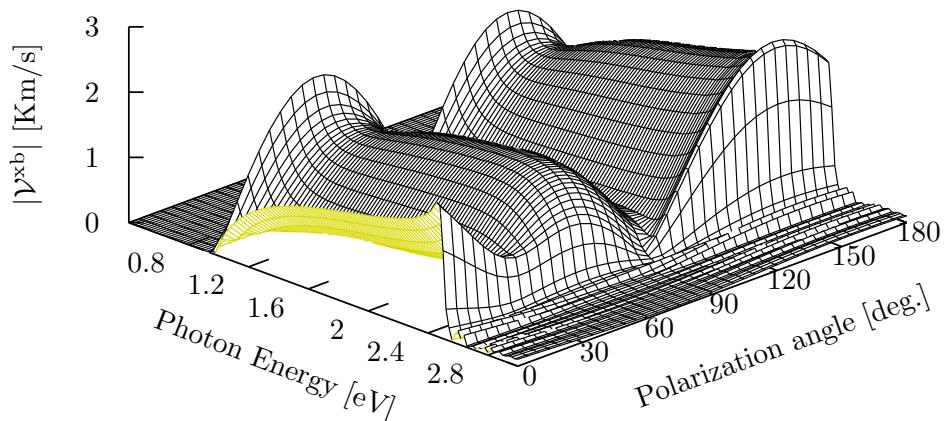


Figure 44: The most intense response for \mathcal{V}^{xb} is for 155° .

fig:ab-magvxbincang

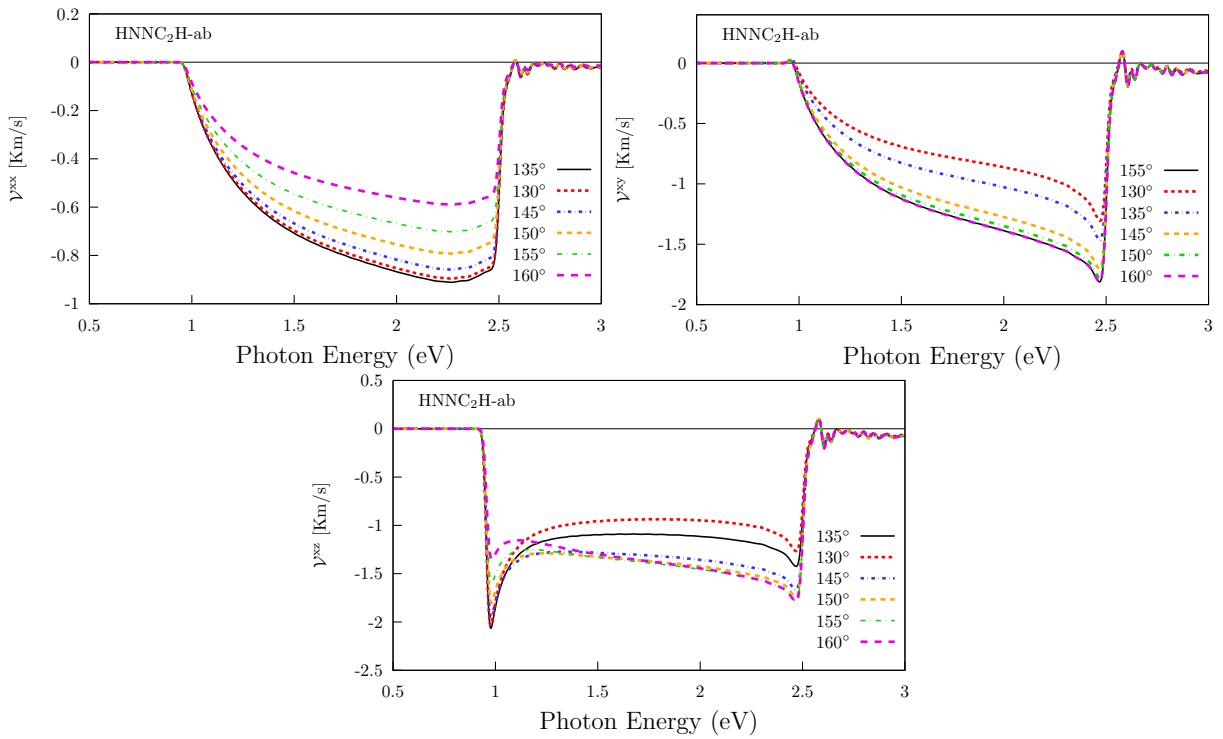


Figure 45: Cheking angle of incidence for xb components. There is a different angle for each component to have the most intense response.
fig:ab-xbangcomp

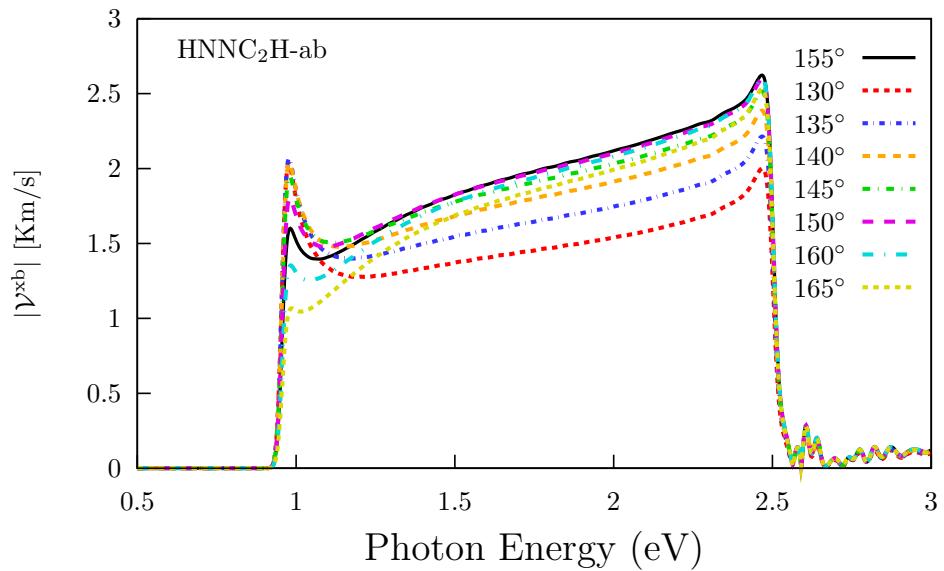


Figure 46: Comparissson of $|V_{xb}|$ for different polarization angles.
fig:ab-magvxb

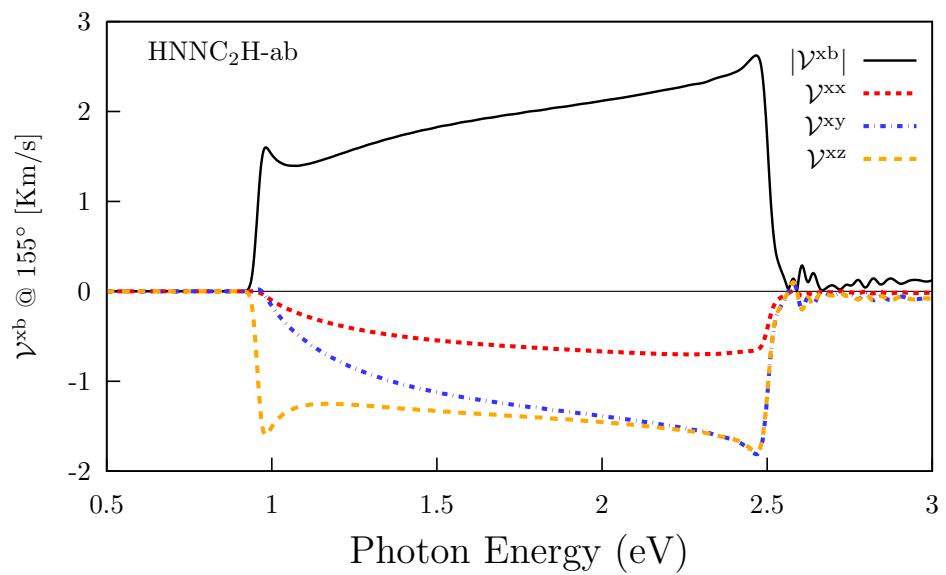


Figure 47: Three components of \mathcal{V}^{xb} @ 155°.

fig:ab-vxb

4.2 \mathcal{V}^{yb}

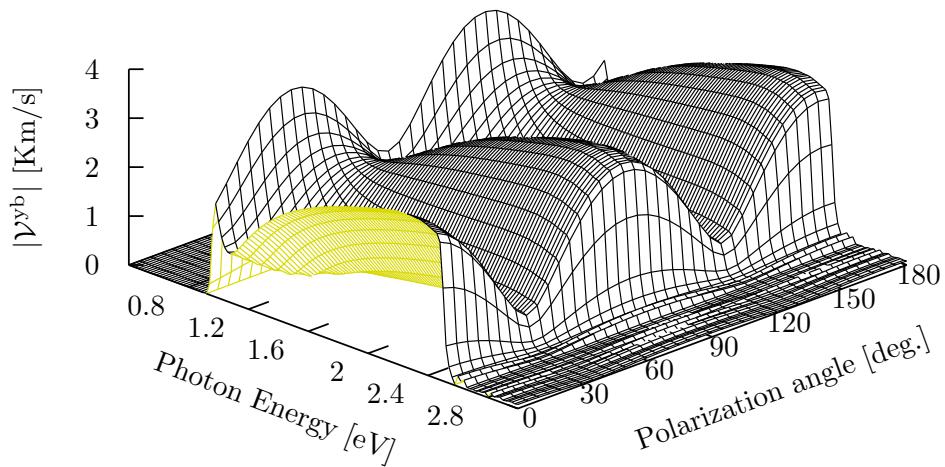


Figure 48: The most intense response for \mathcal{V}^{yb} is for 155° .

`fig:ab-magvybincang`

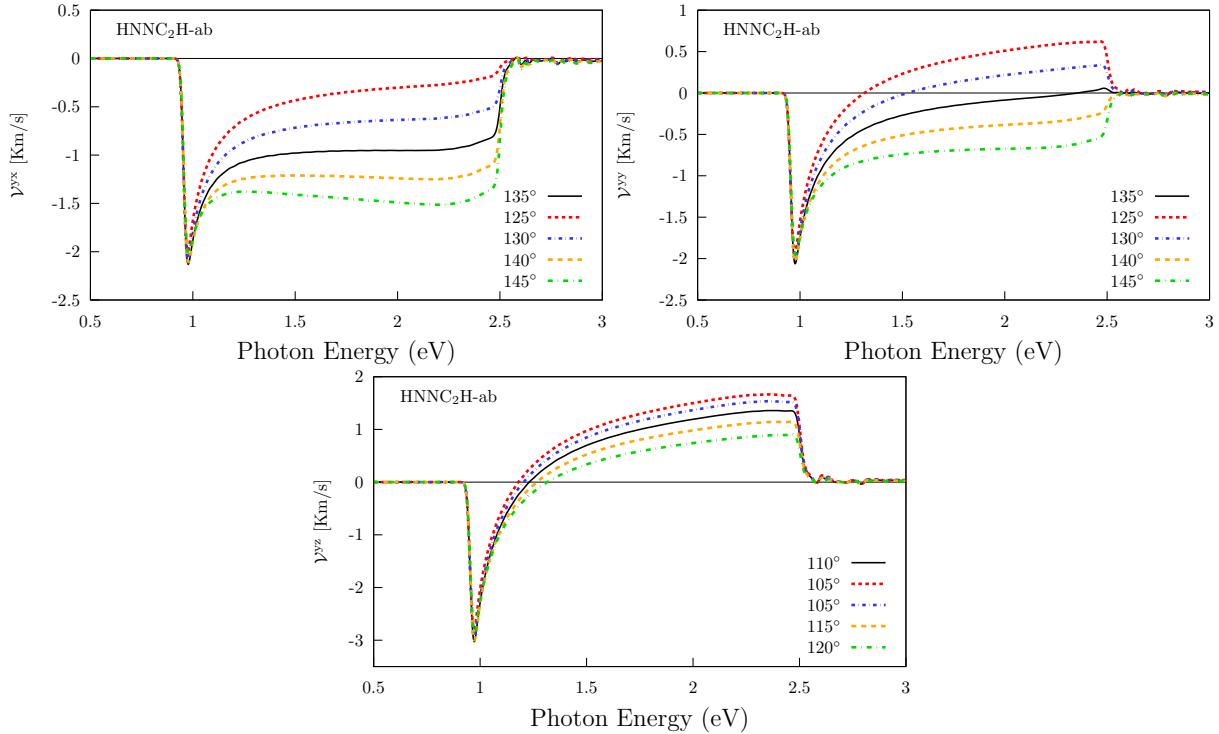


Figure 49: Cheking angle of incidence for yb components. There is a different angle for each component to have the most intense response.

`fig:ab-ybangcomp`

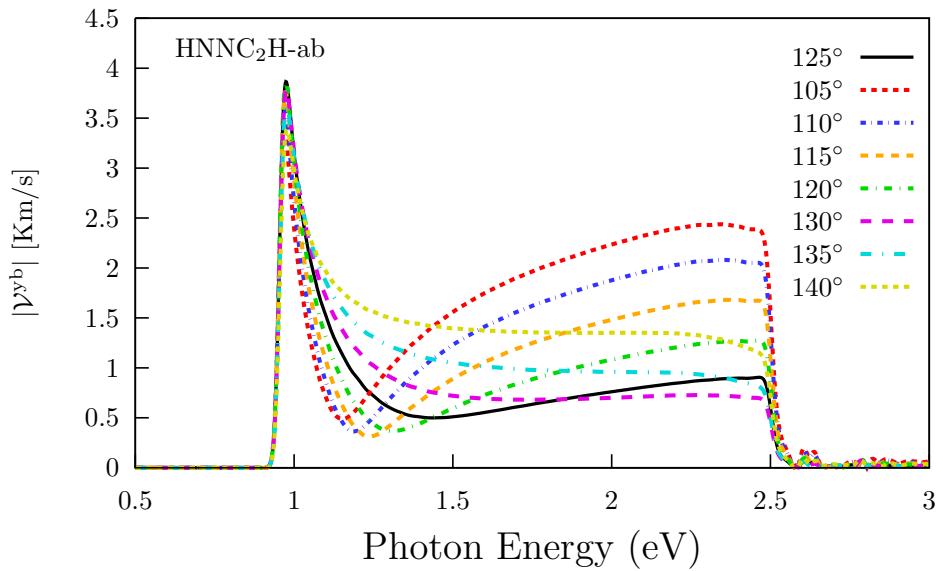


Figure 50: Comparisso[n of $|V^{yb}|$ for different polarization angles.

`fig:ab-magvyb`

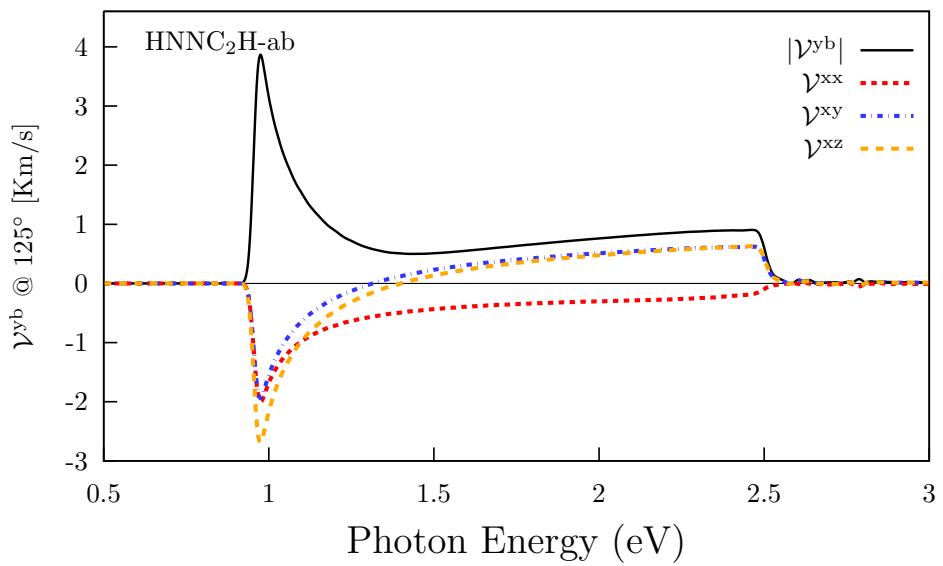


Figure 51: Three components of V^{yb} @ 125° .

`fig:ab-vyb`

4.3 $|\mathcal{V}^{ab}|$, angles θ and φ , layers, and comparison with CdSe and GaAs.

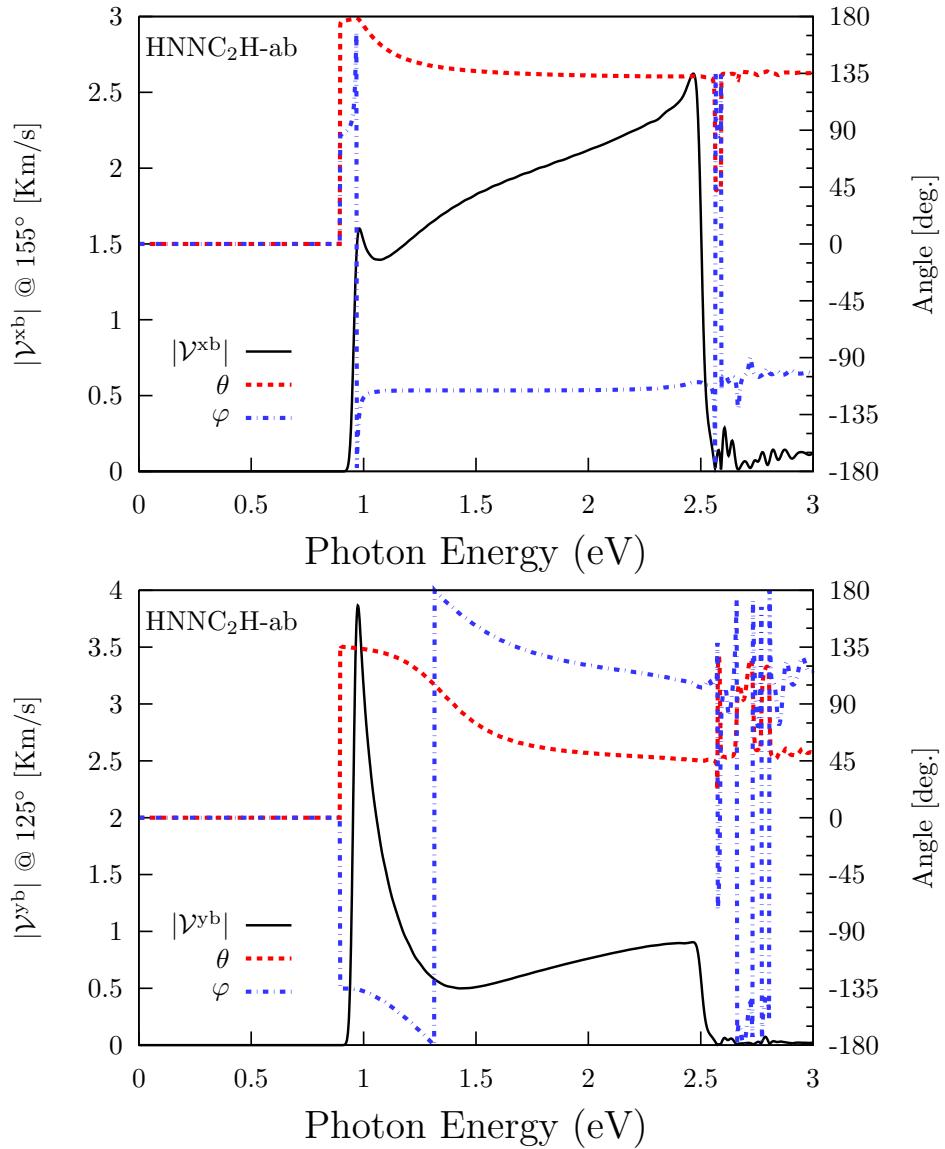


Figure 52: $|\mathcal{V}^{ab}|$ (solid line, leftside scale) and the corresponding angles θ and φ (dashed lines, rightside scale). Fig: ab_rtp

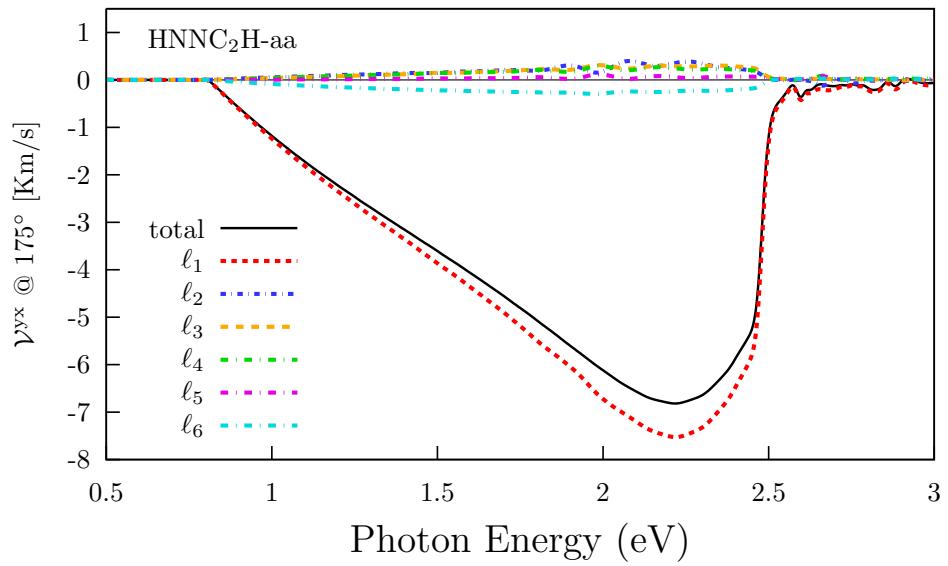


Figure 53: Layer decomposition for the most intense response: \mathcal{V}^{yz} .

[fig:aa-lay](#)

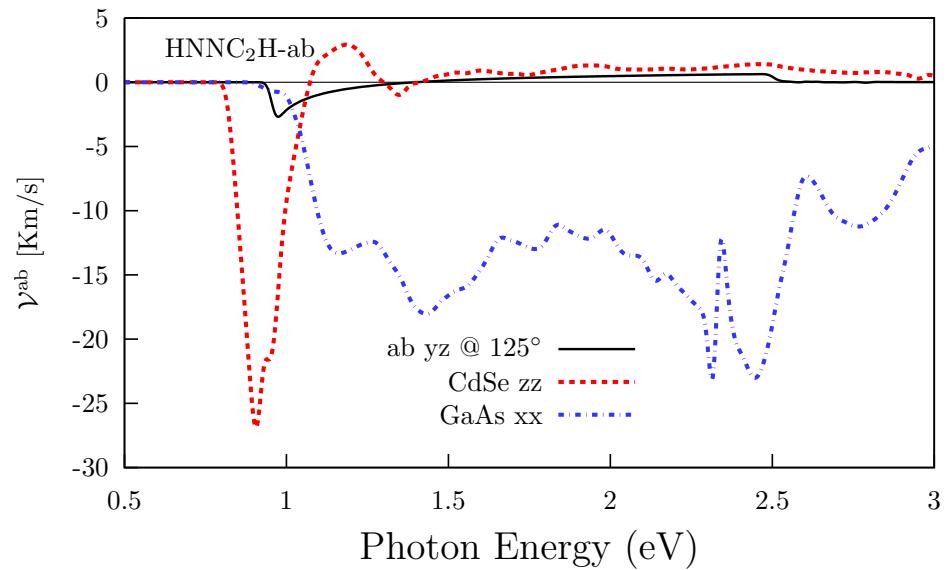


Figure 54: Comparissoin of the most intense response vs the most intense responses of CdSe and GaAs.

[fig:ab-comp](#)

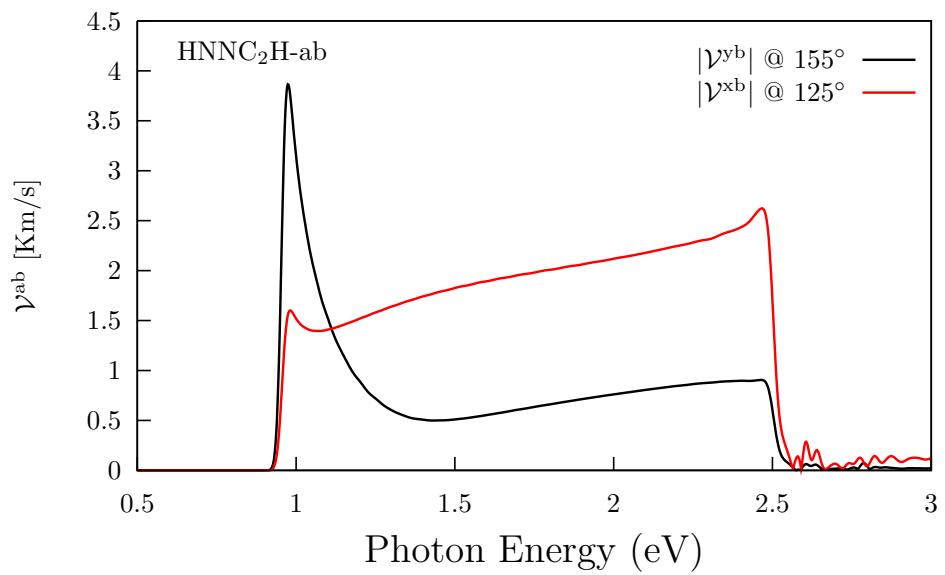


Figure 55: Comparisson of $|\mathcal{V}^{xb}|$ and $|\mathcal{V}^{yb}|$.

`fig:ab-xbybcomp`