

# SALC

## An Orbital Arrangement Game

By  
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& Madalyn Radlauer, PhD

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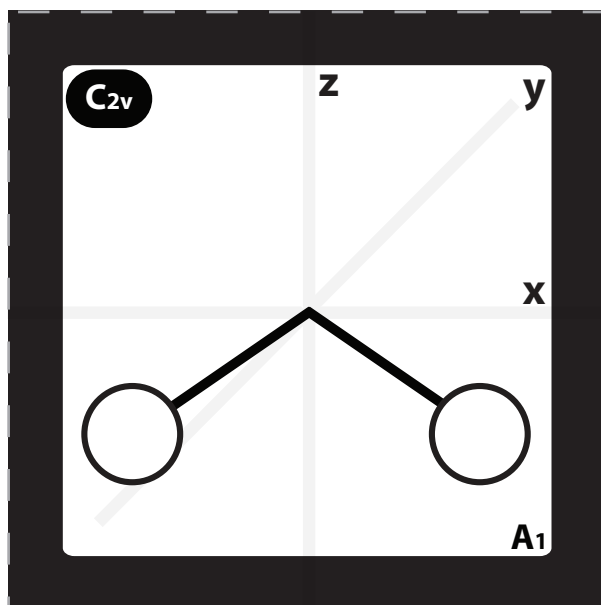
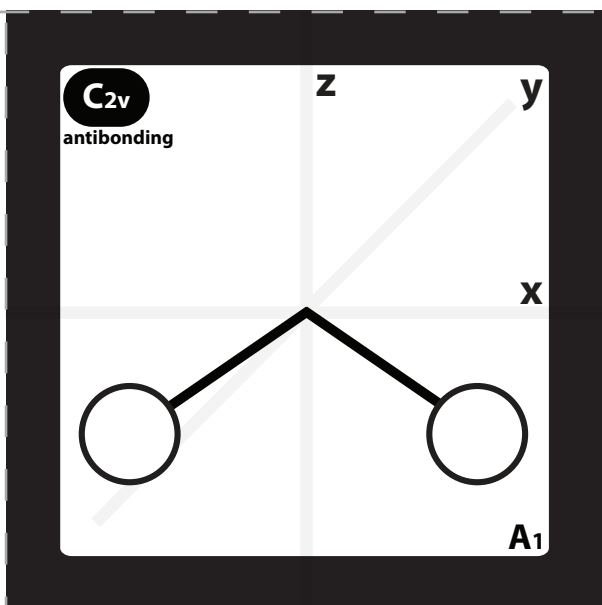
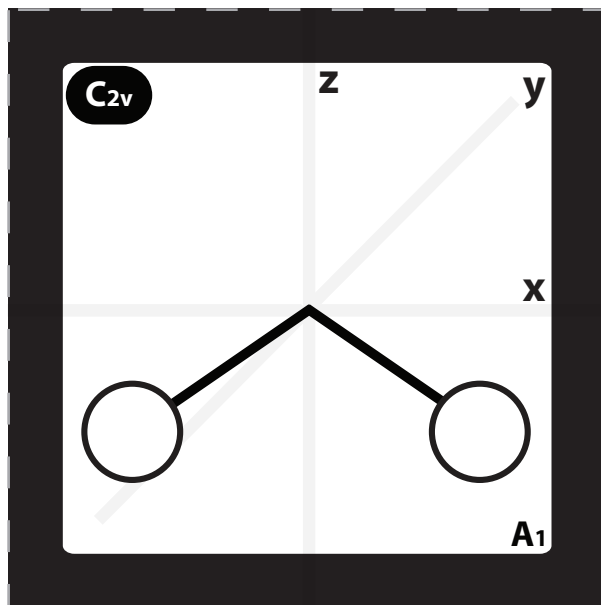
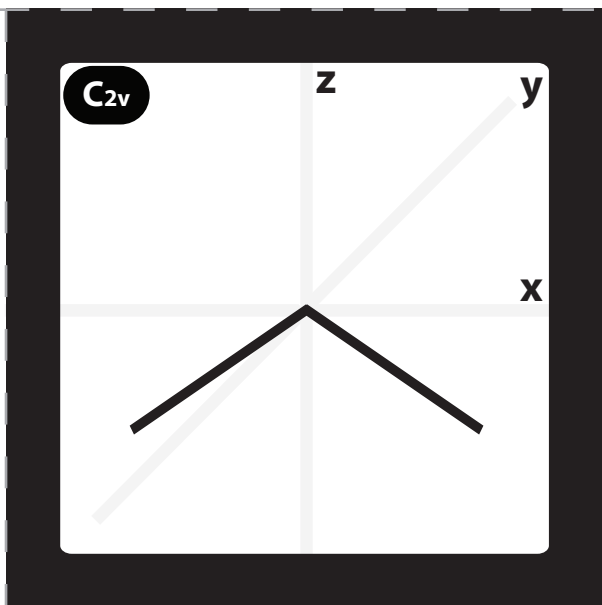
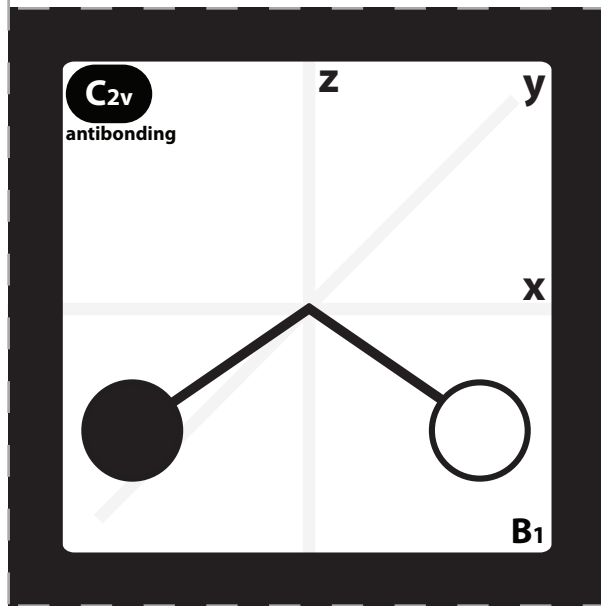
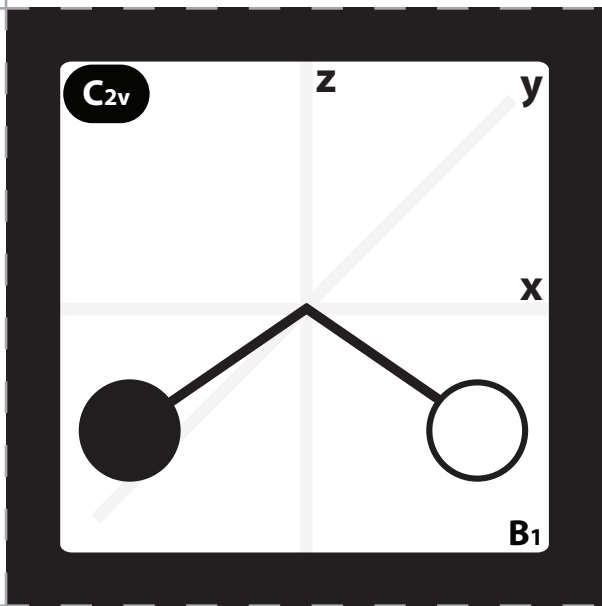
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**Instructions: Print all pages double sided (the pages are laid out for you to print in one go). After printing, cut the cards along the dash lines. Use a paper trimmer and cut directly on the dash line. We recommend using glossy white paper between 150 gsm and 300 gsm.**

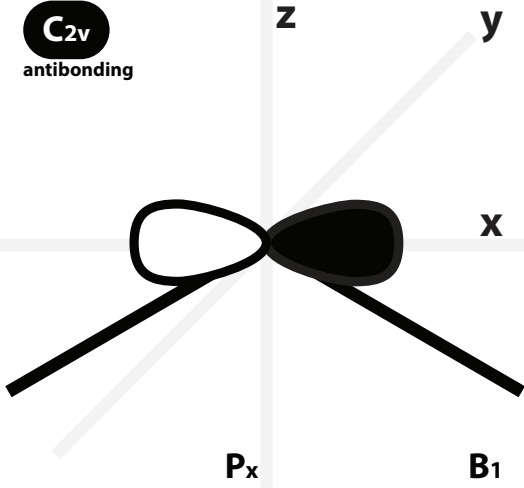
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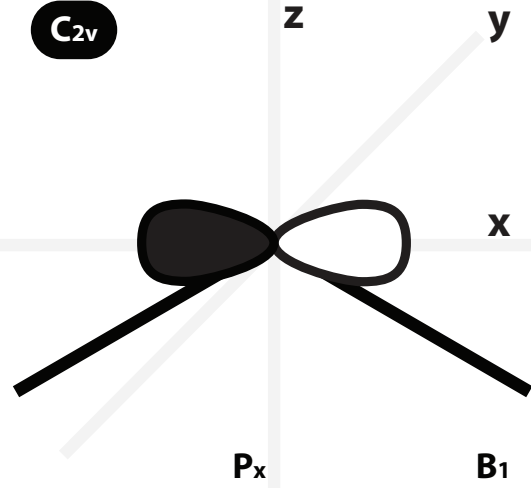
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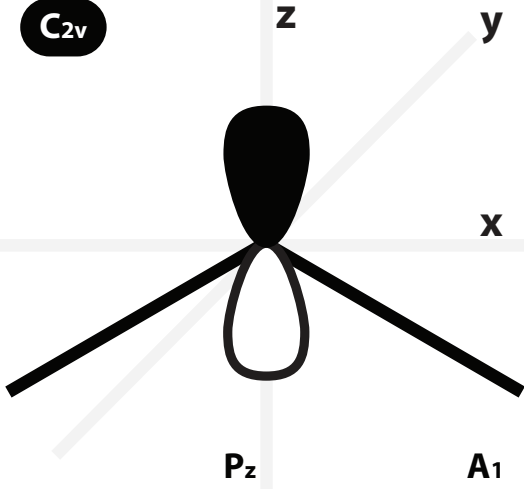
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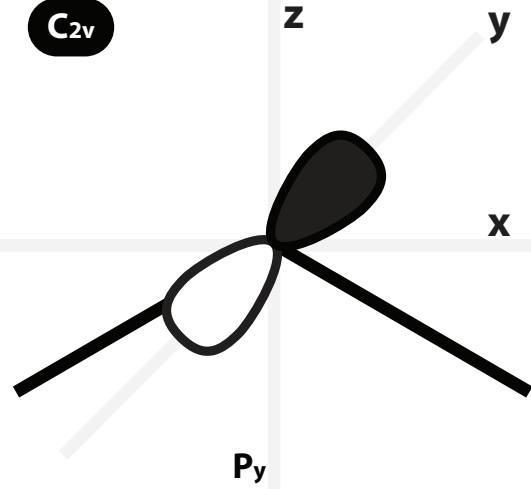
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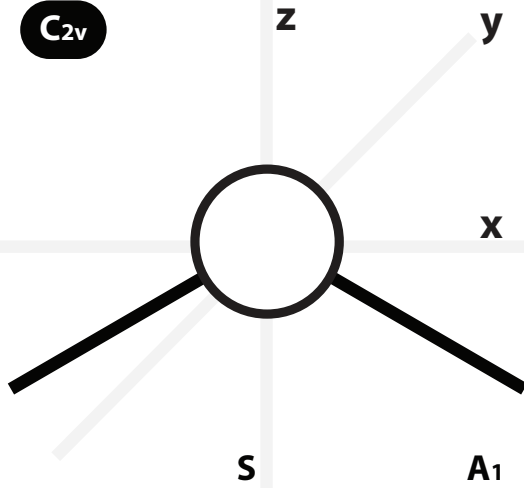
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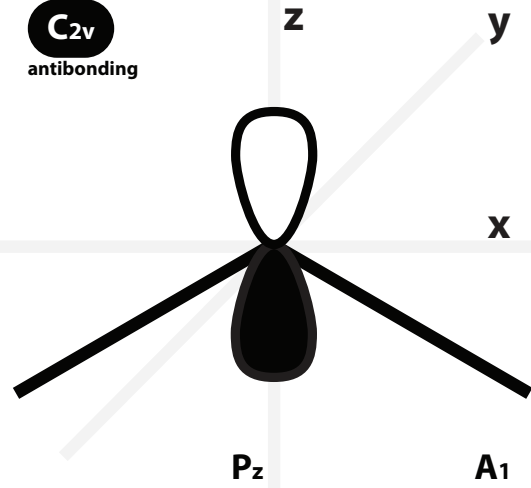
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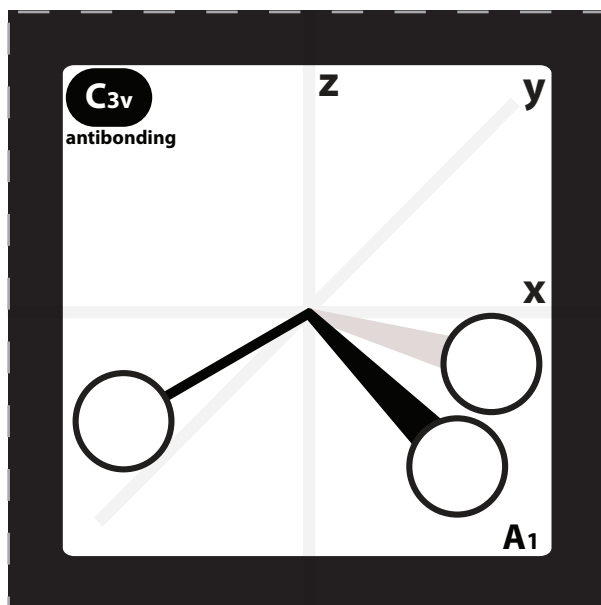
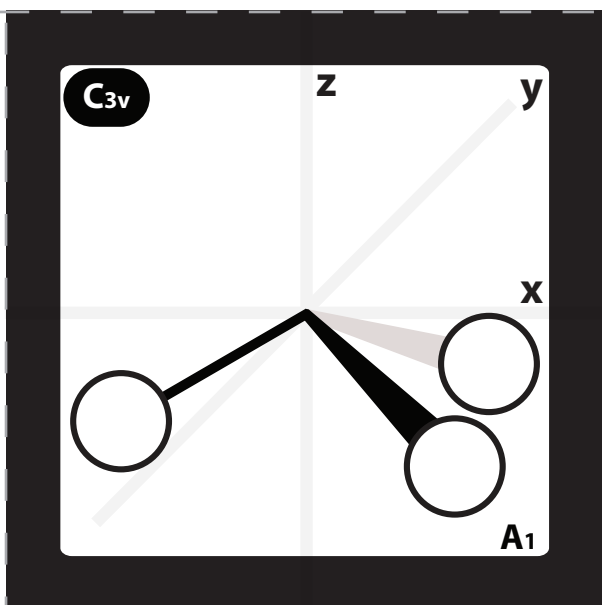
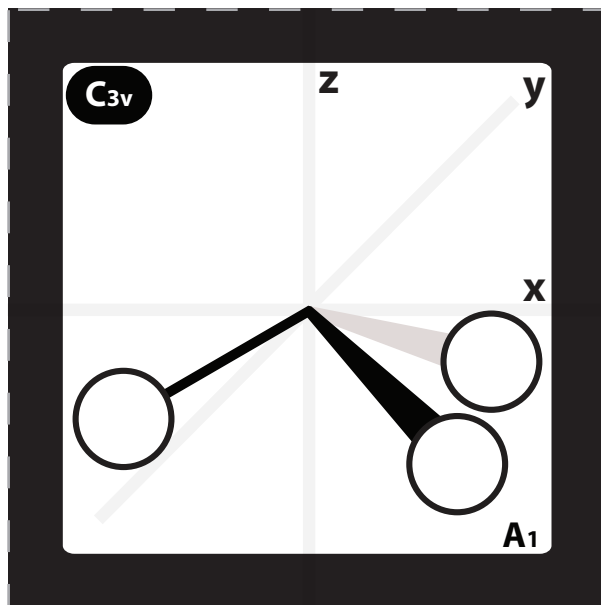
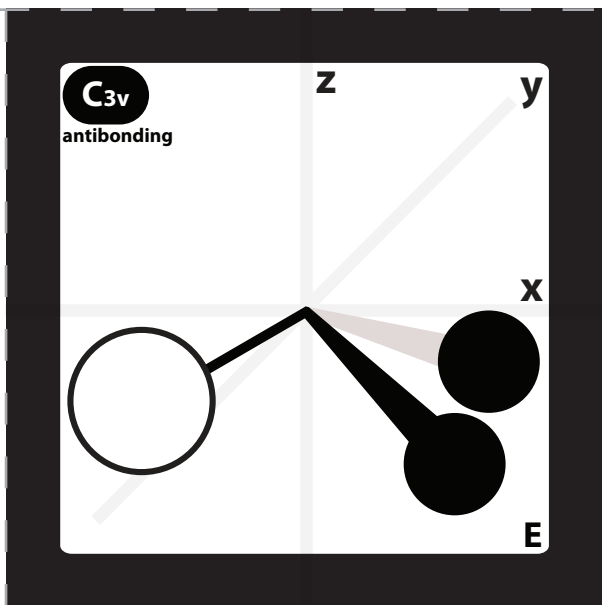
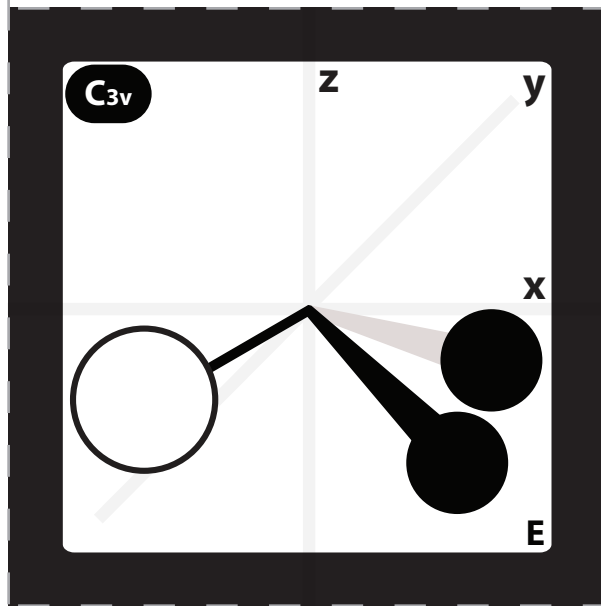
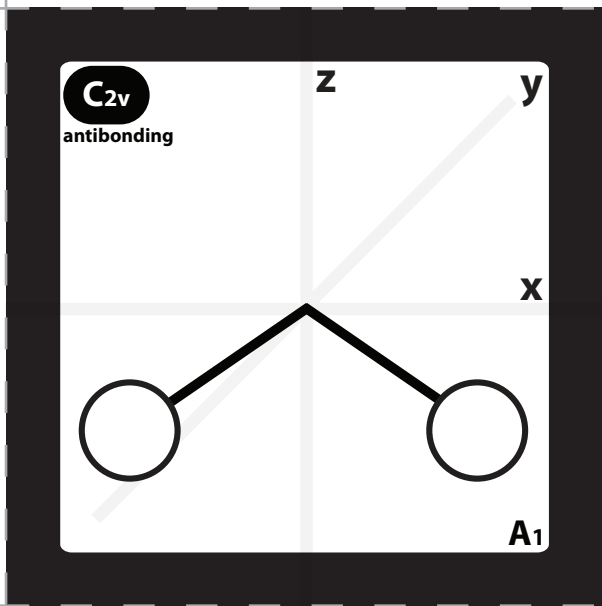


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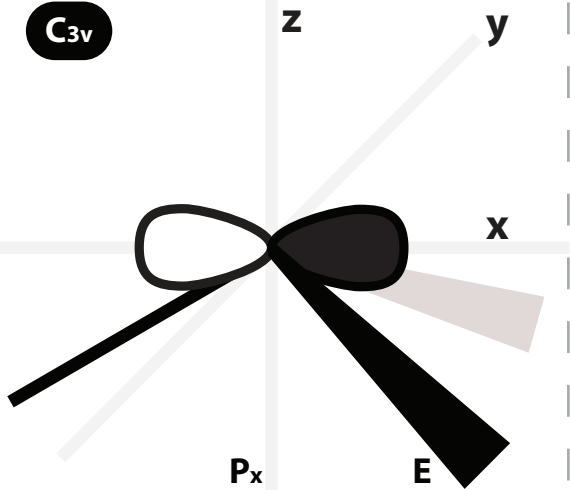


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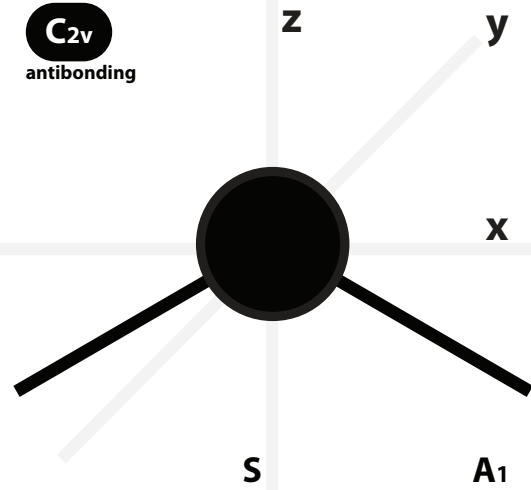




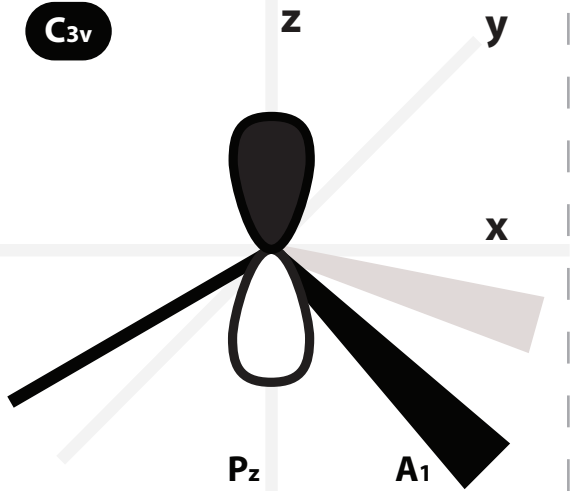
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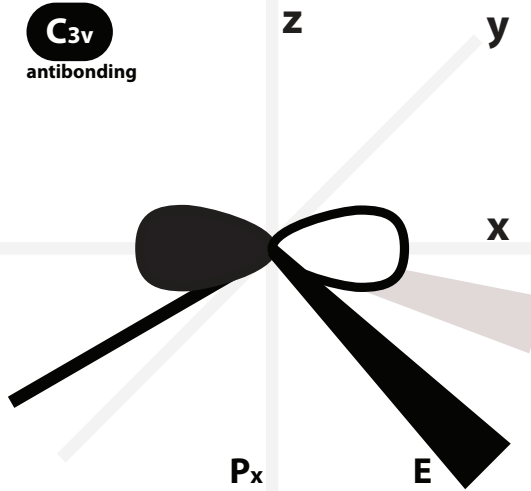
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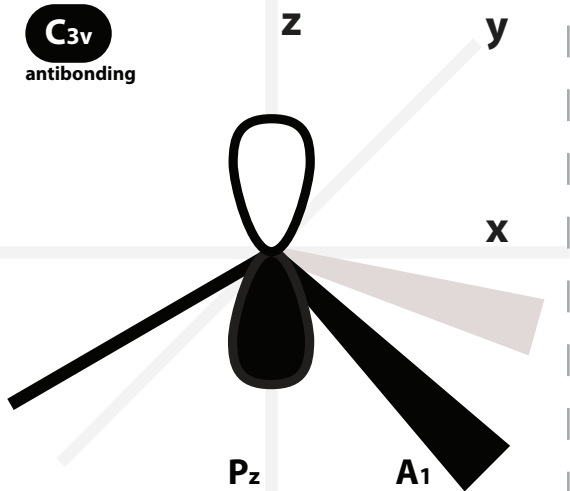
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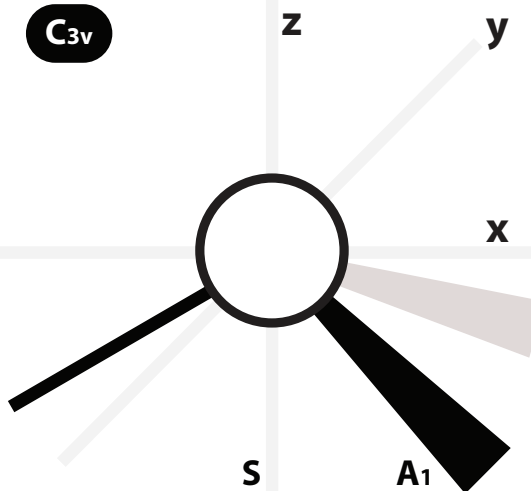
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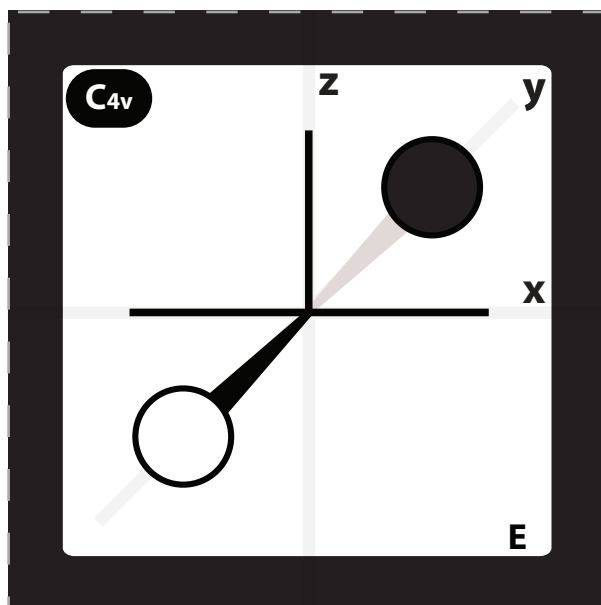
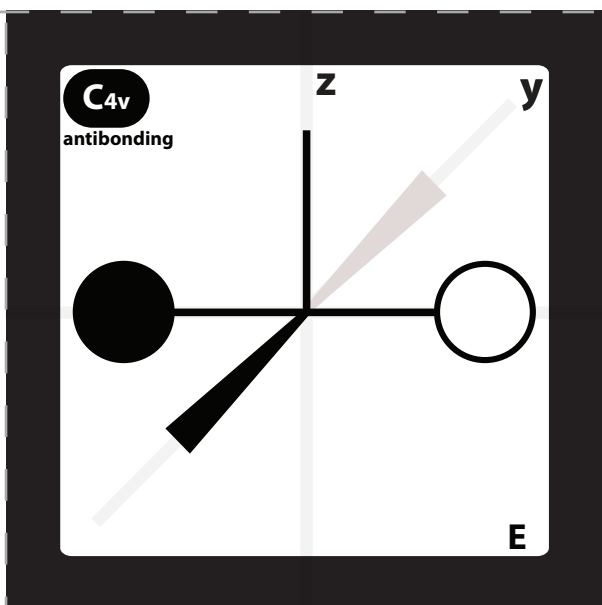
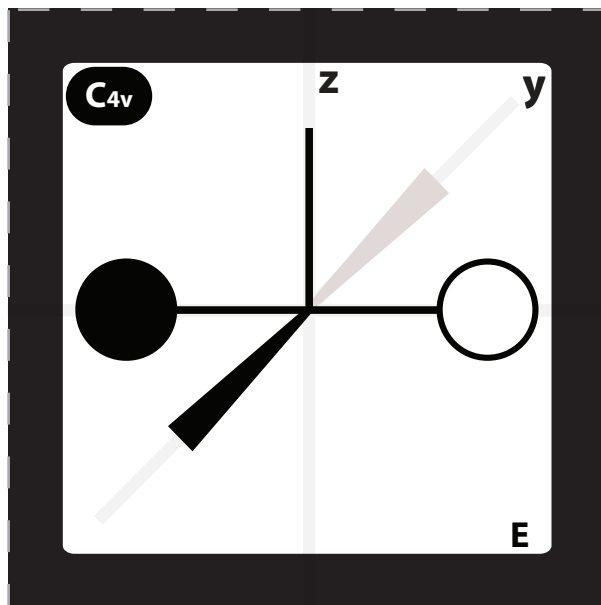
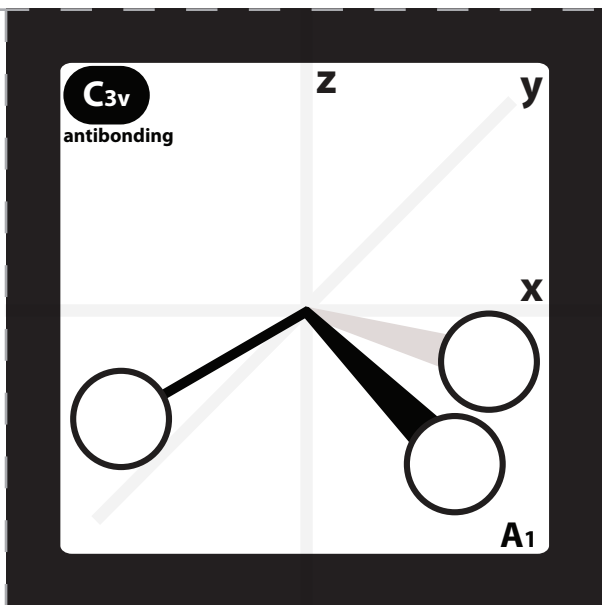
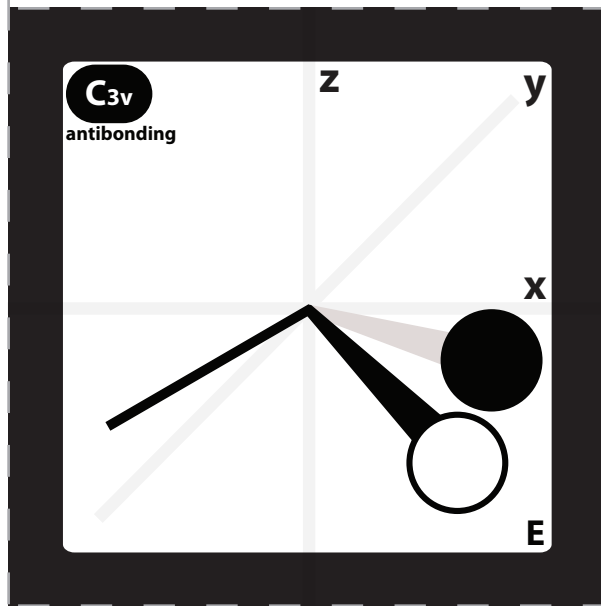
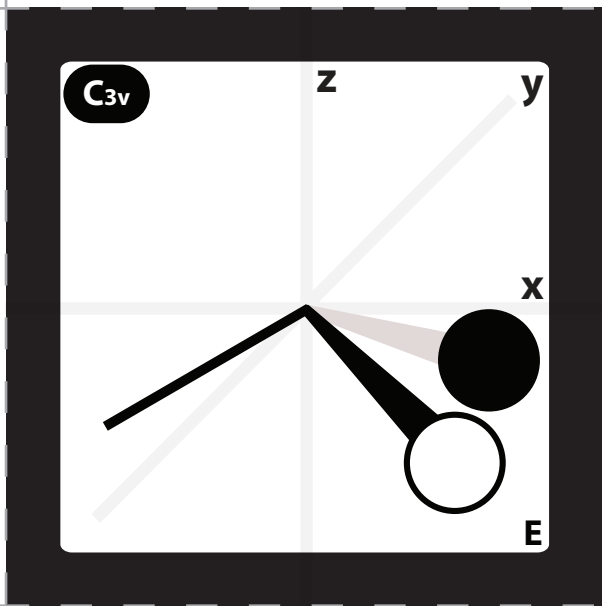


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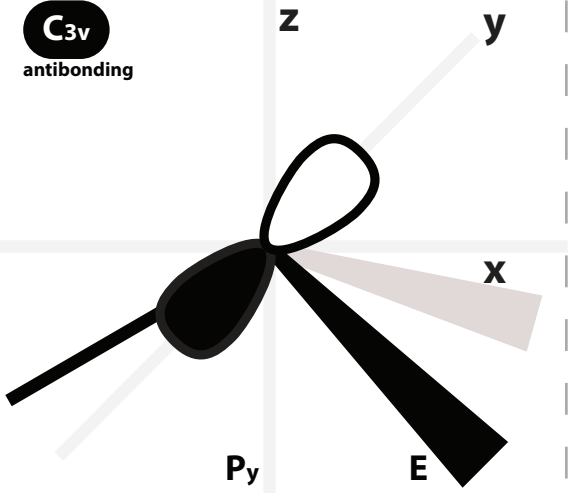


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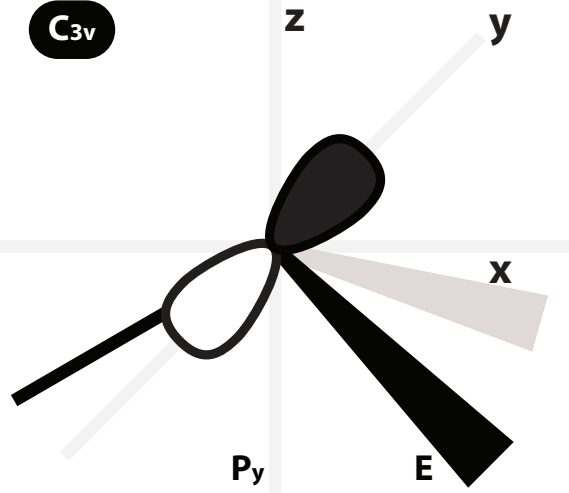




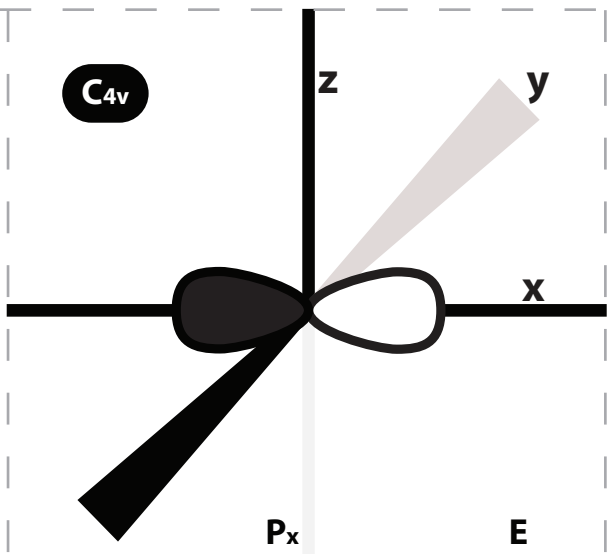
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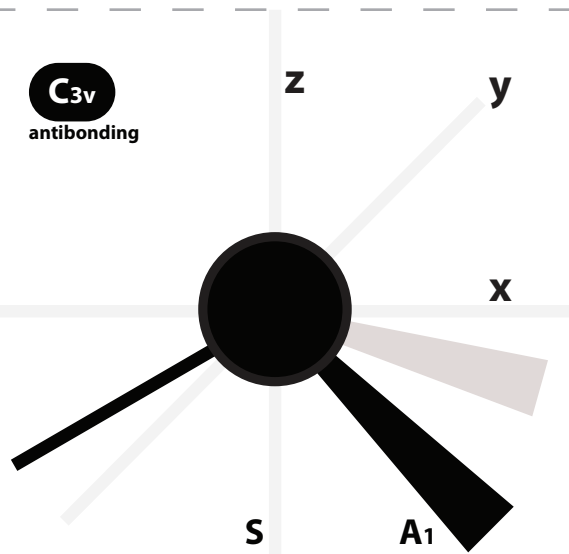
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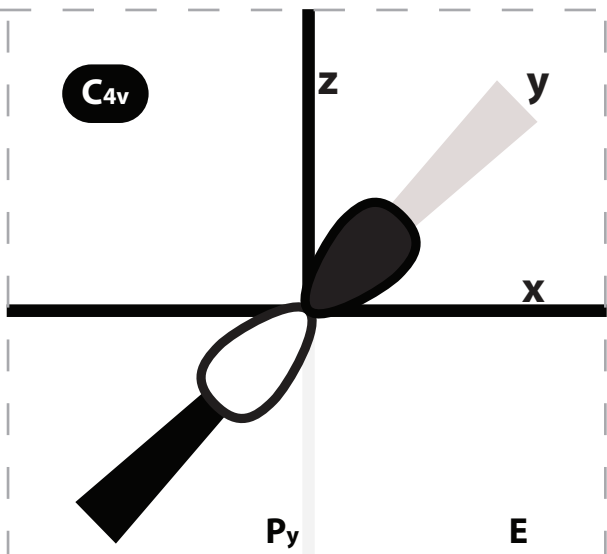
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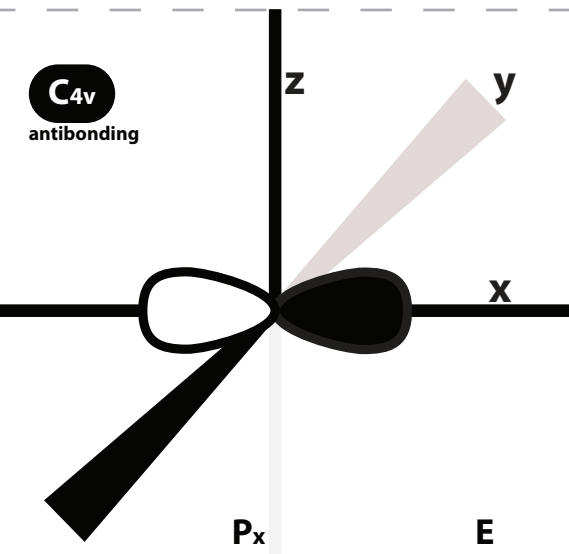
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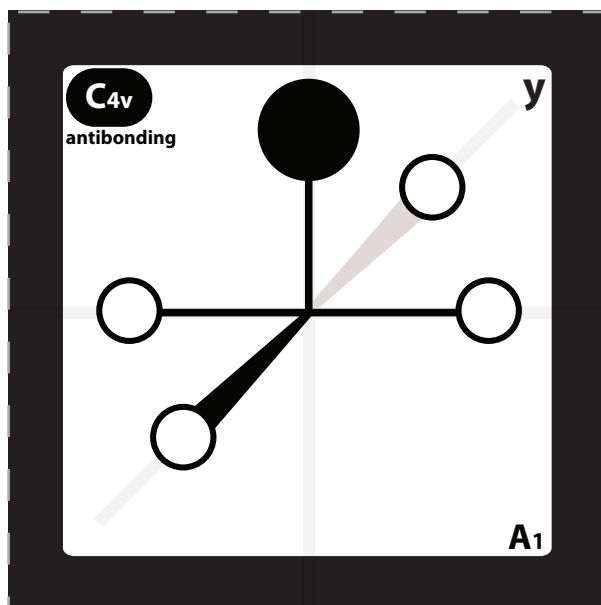
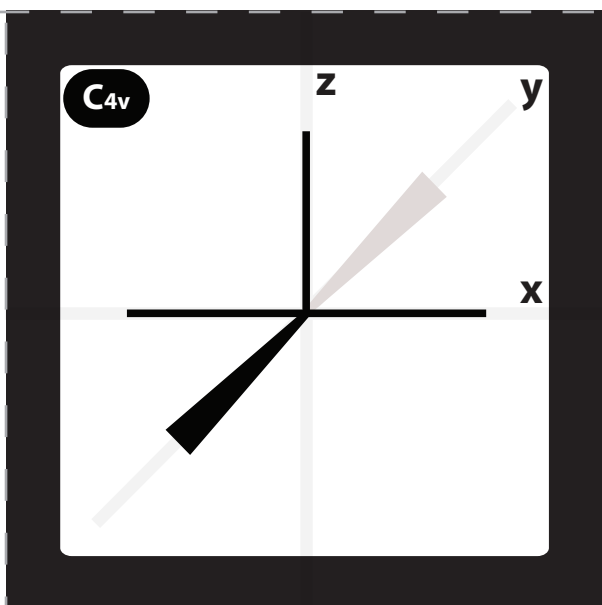
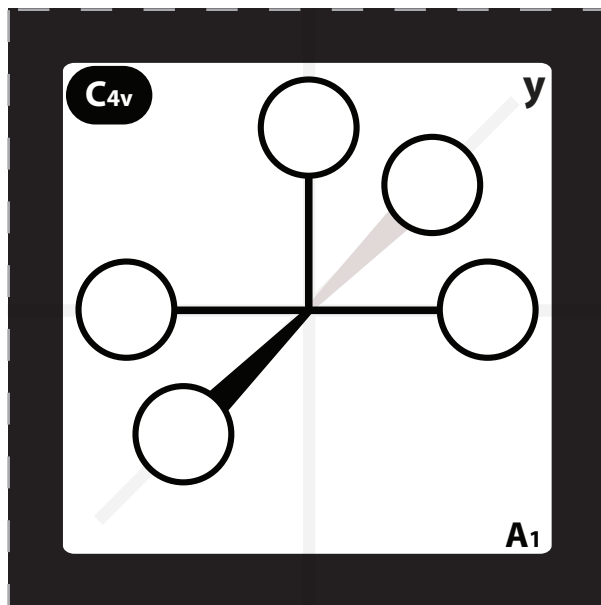
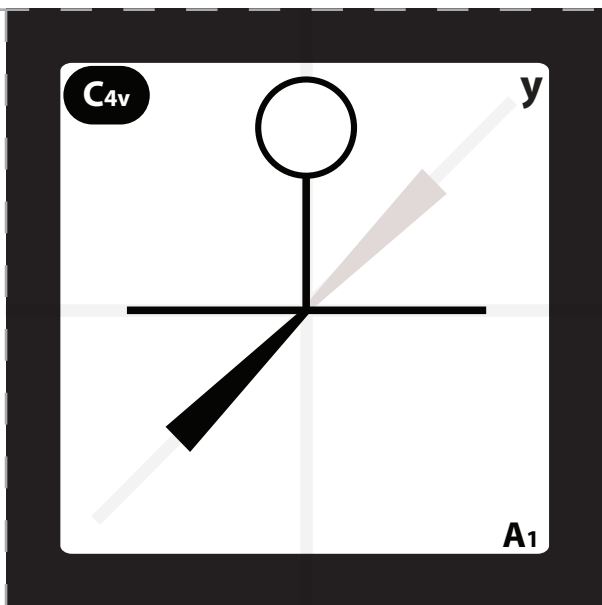
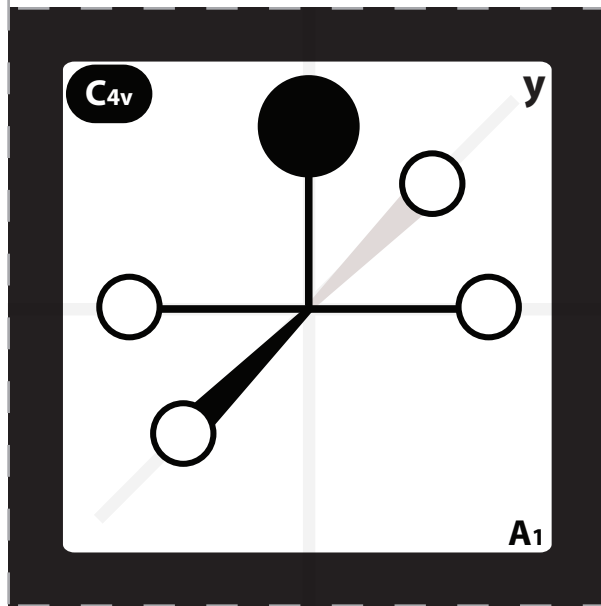
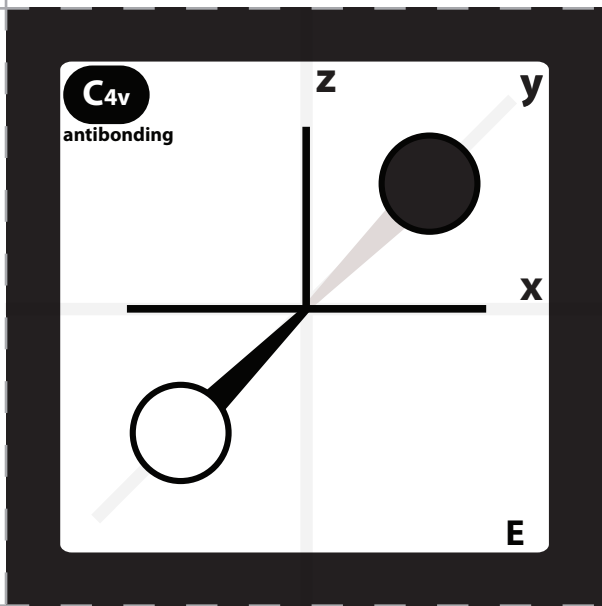
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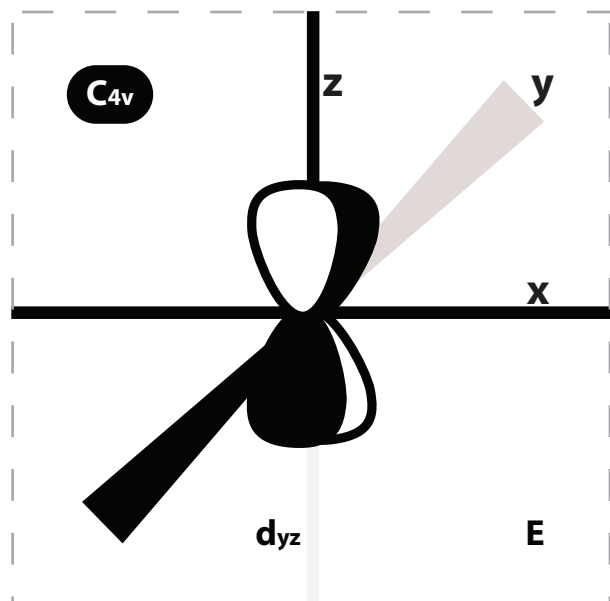
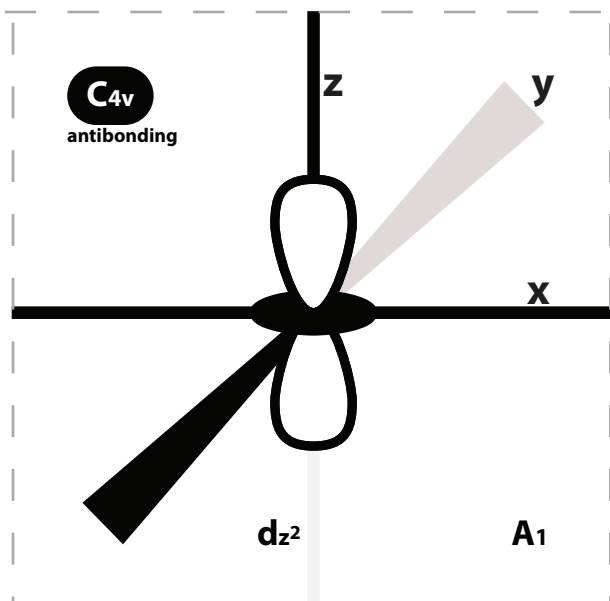
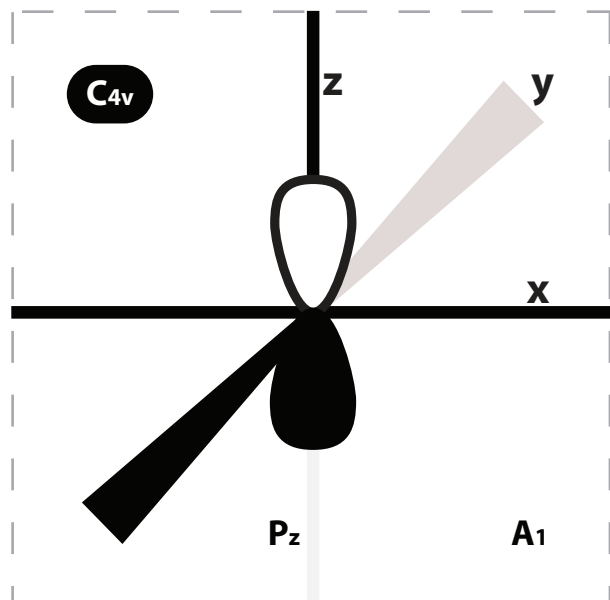
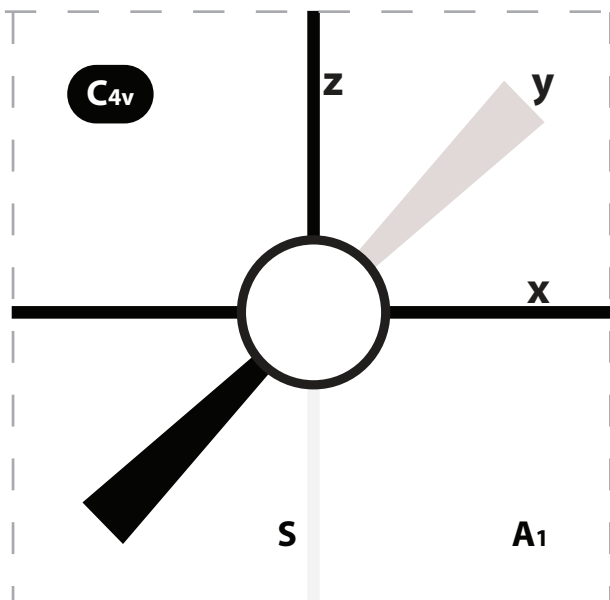
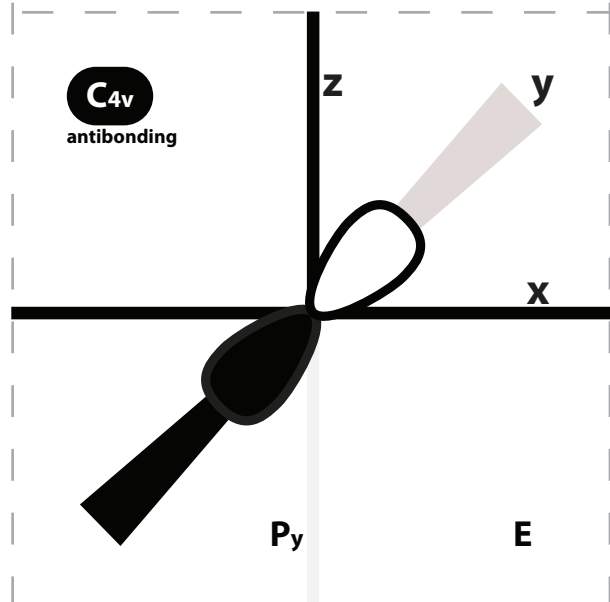
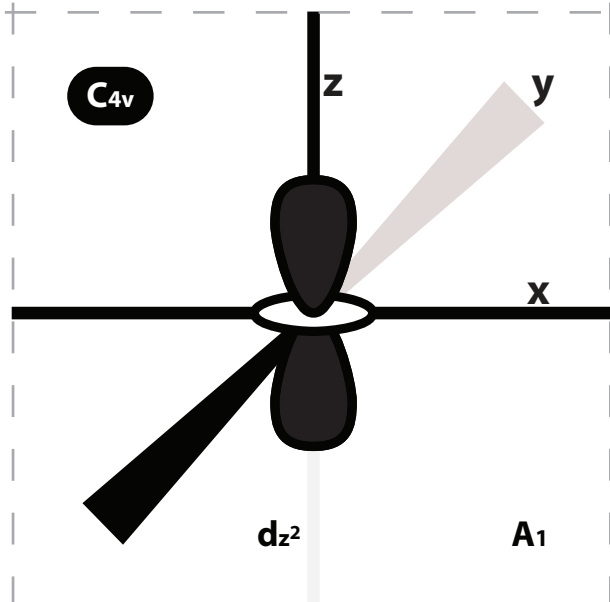


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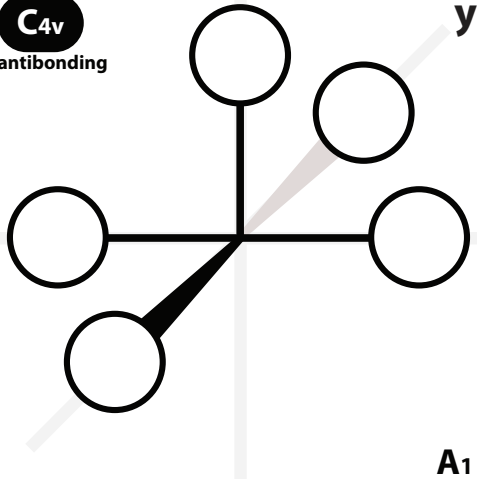






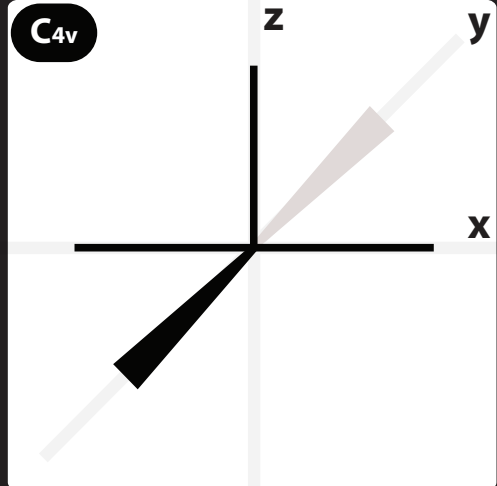


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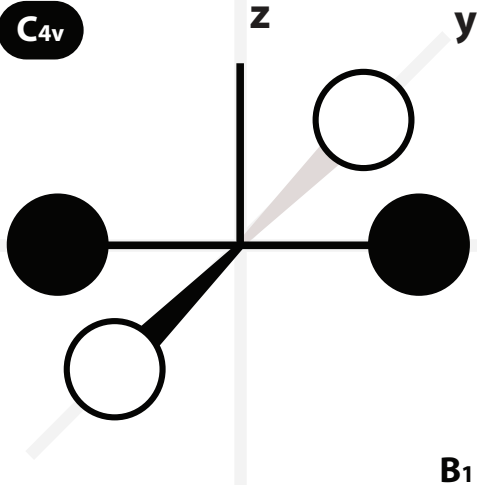


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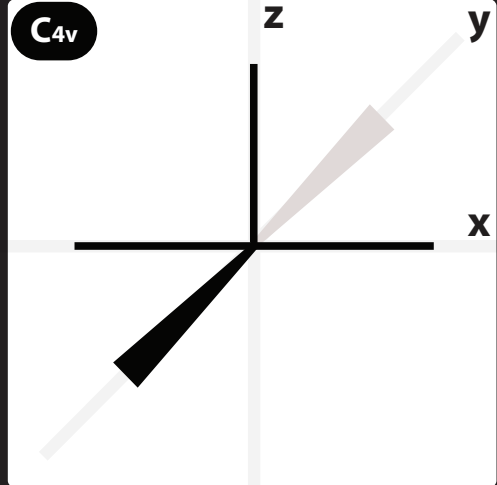


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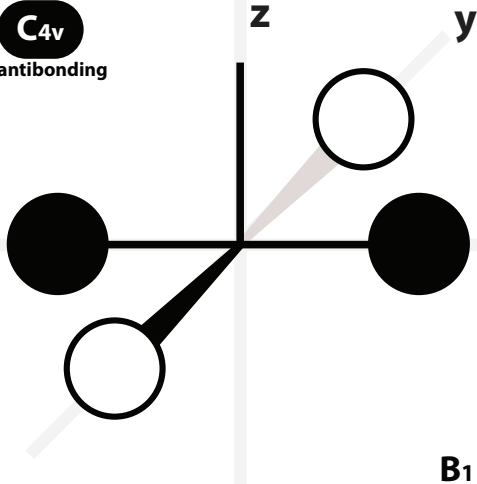


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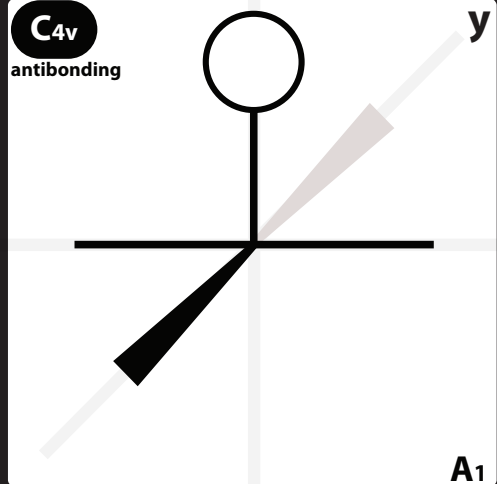


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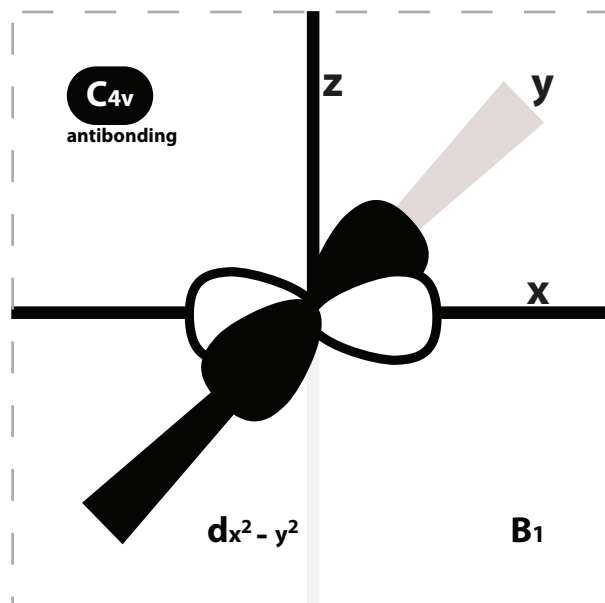
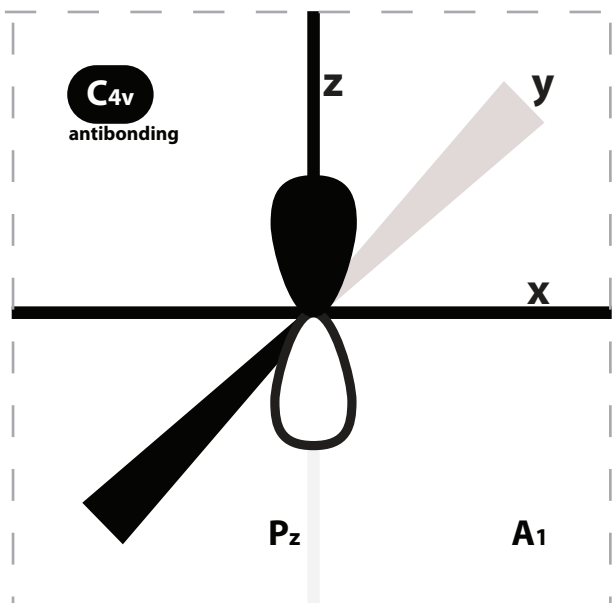
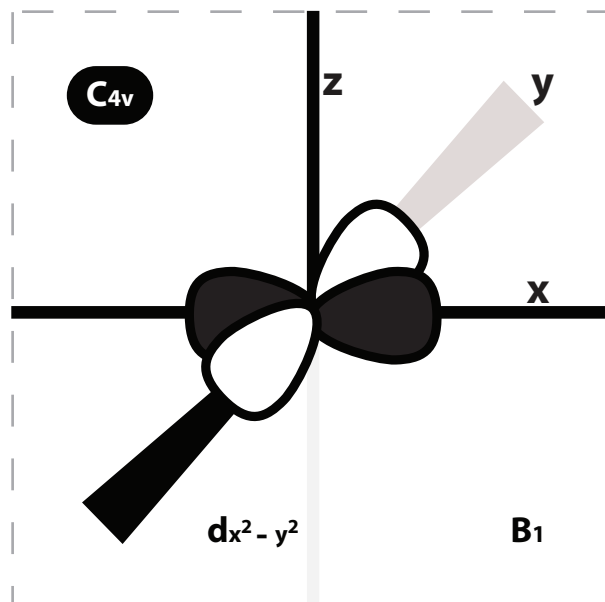
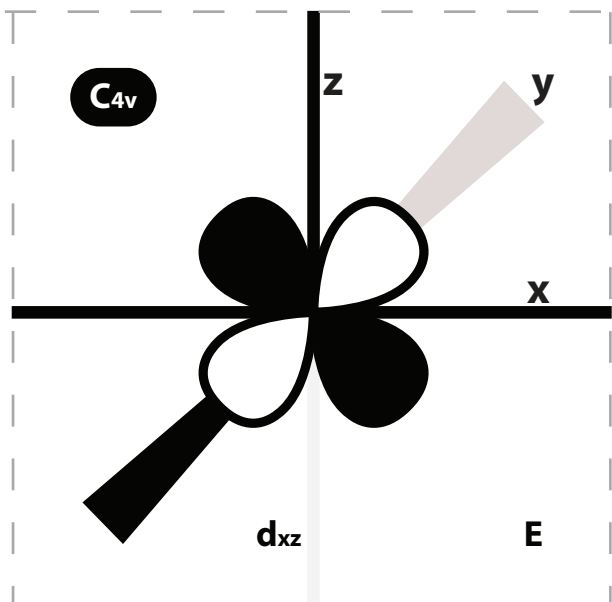
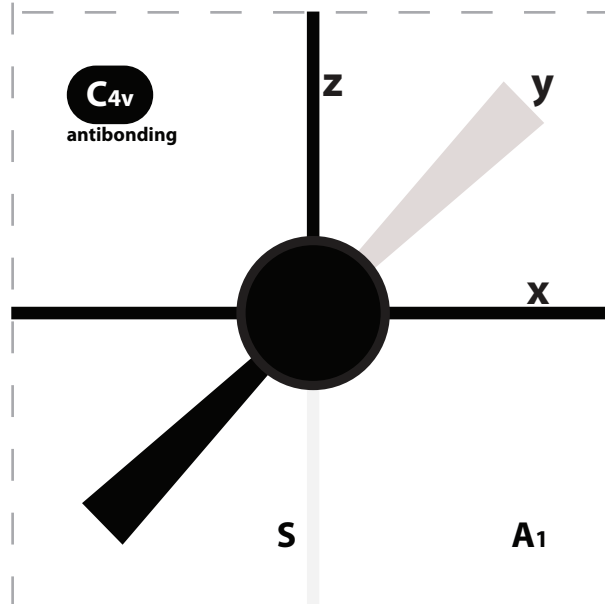
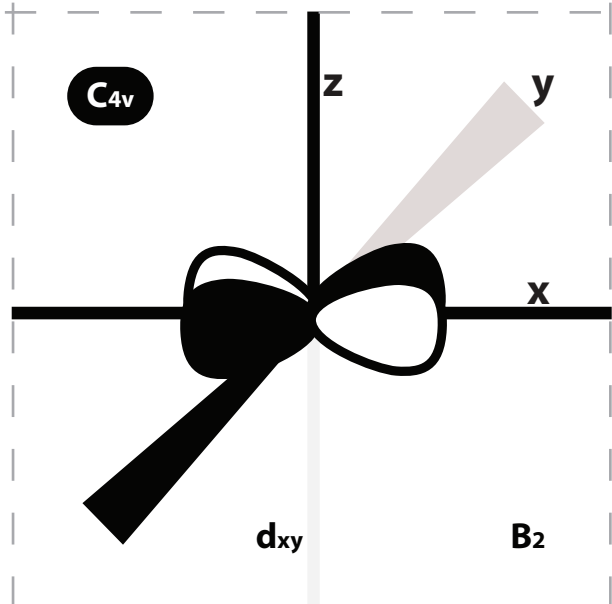


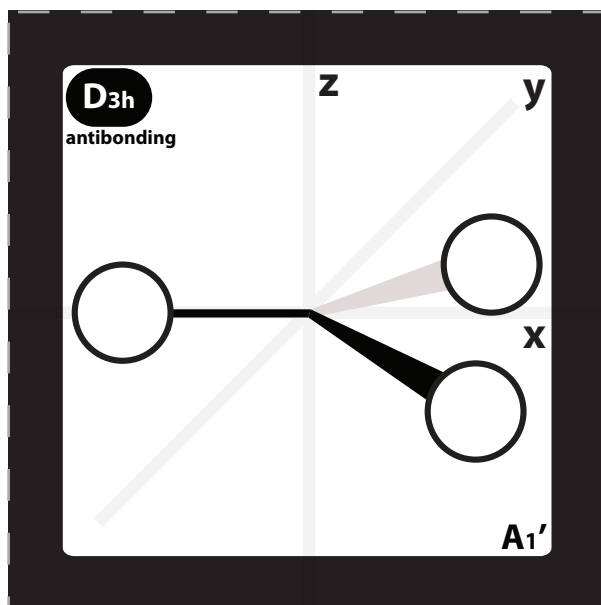
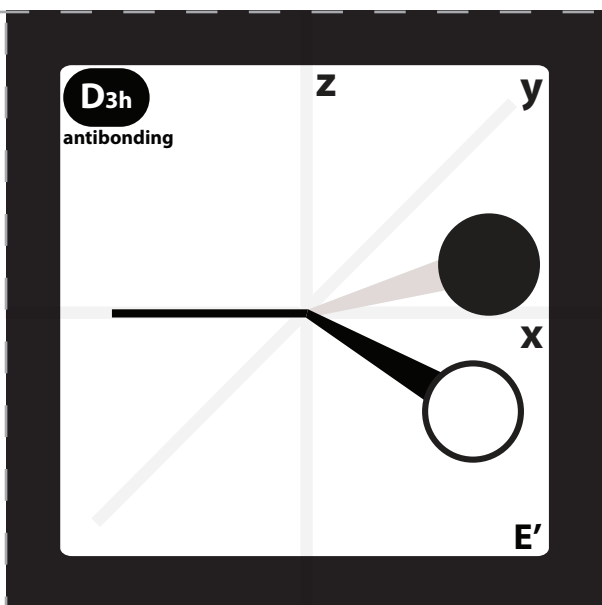
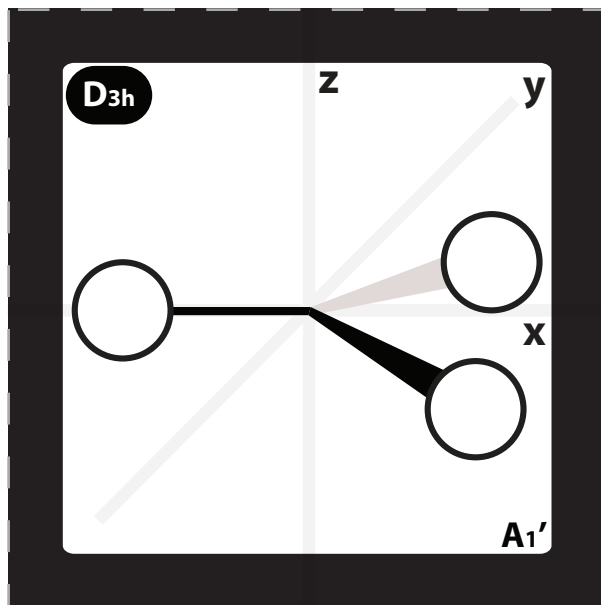
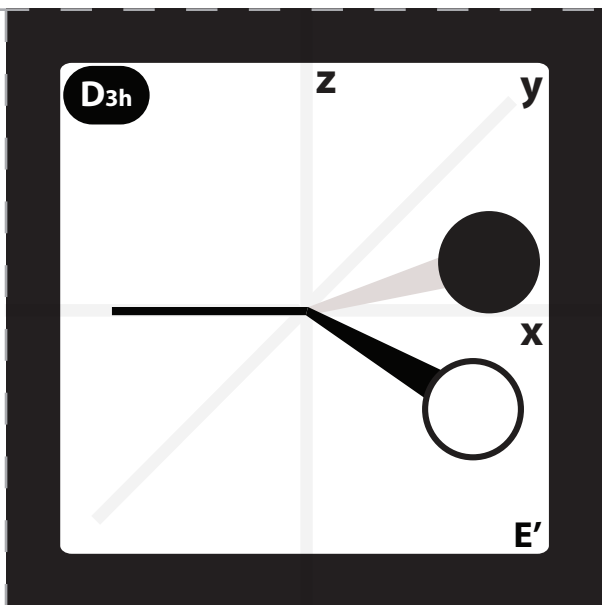
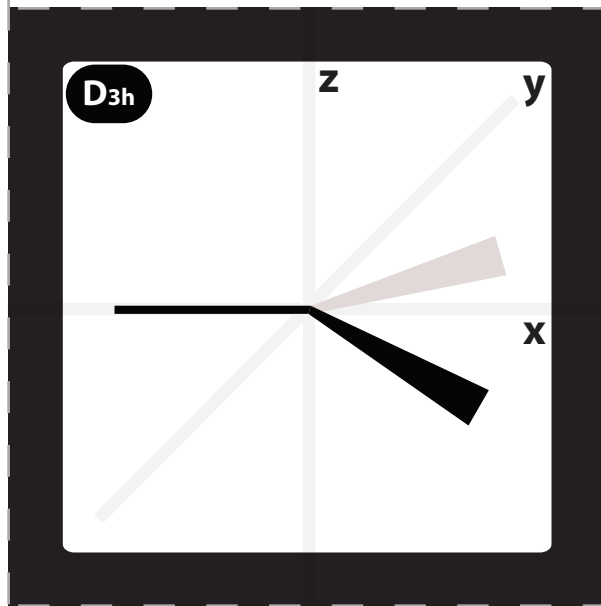
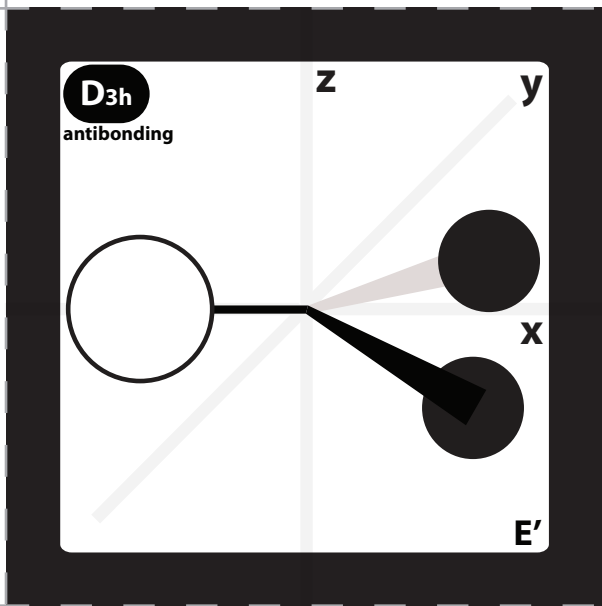
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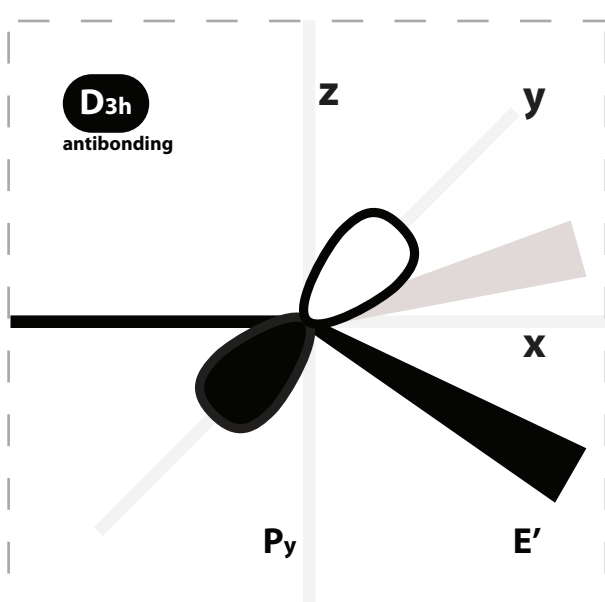
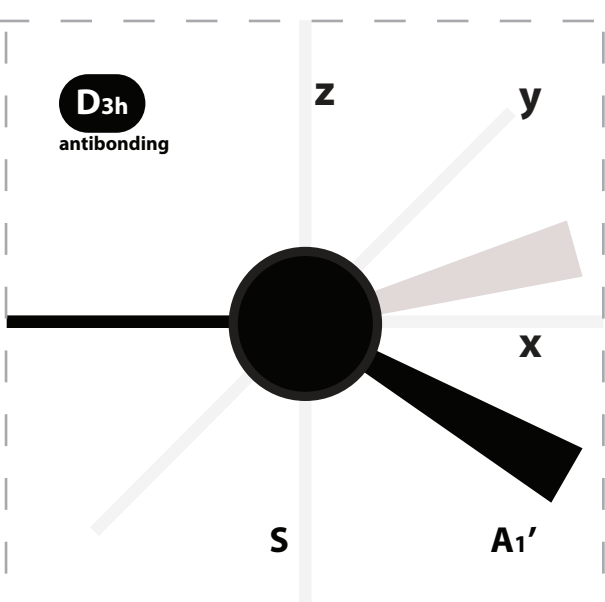
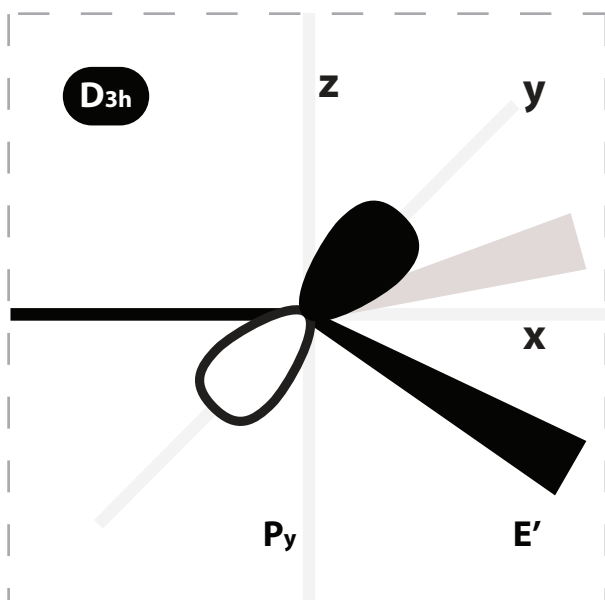
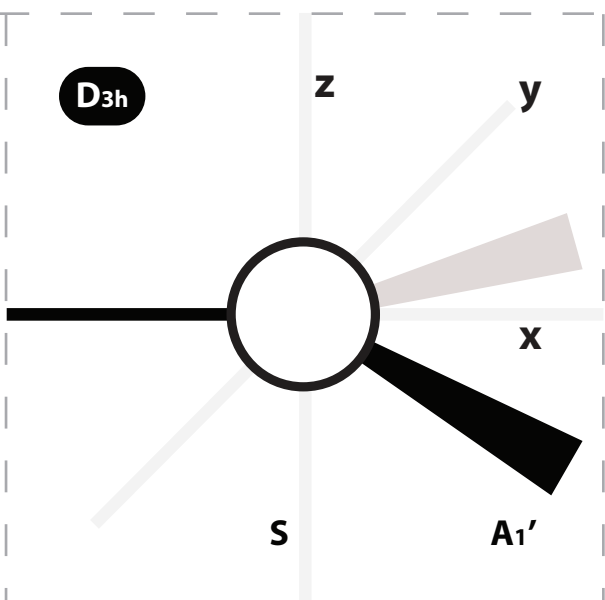
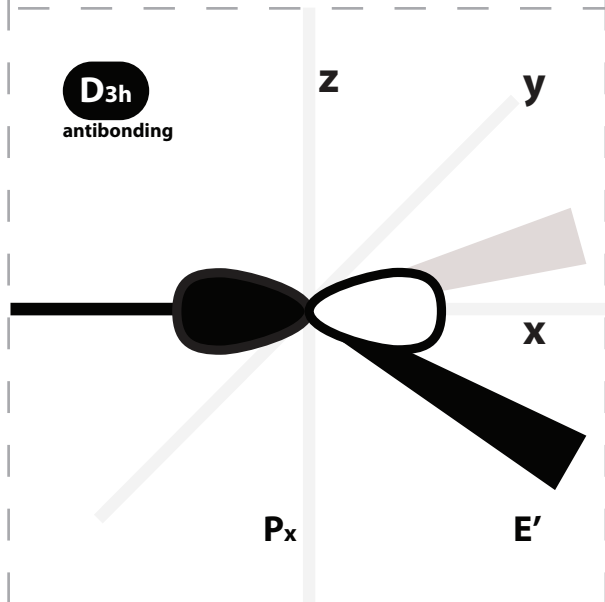
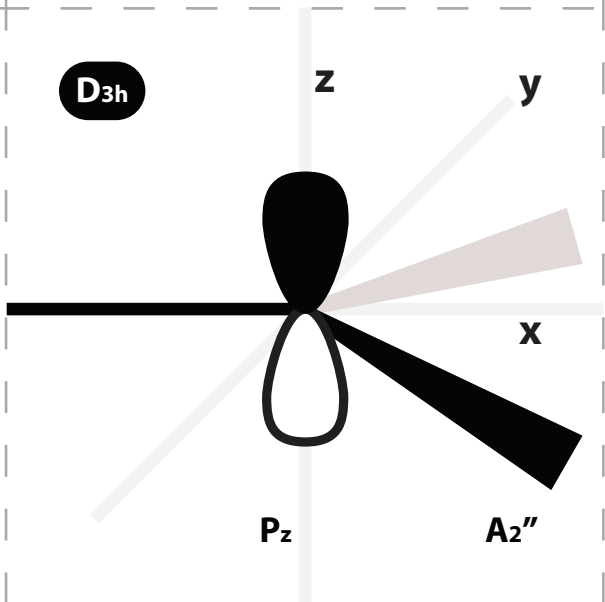
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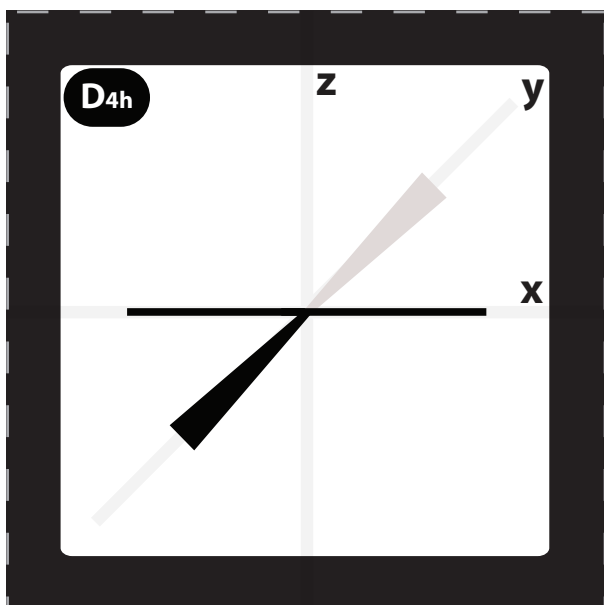
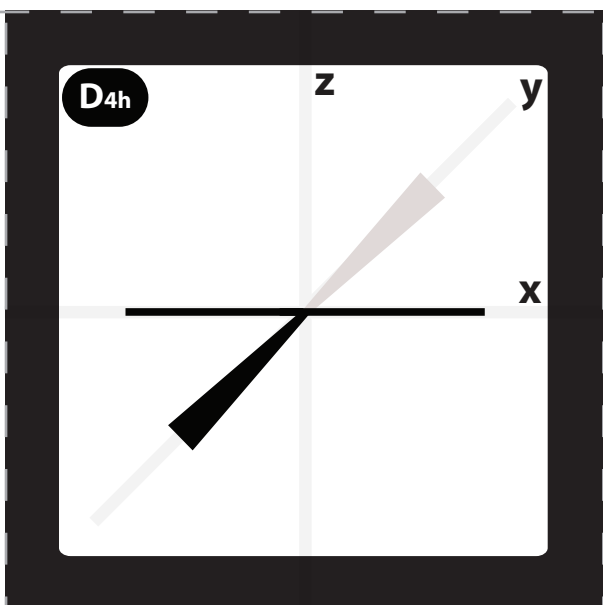
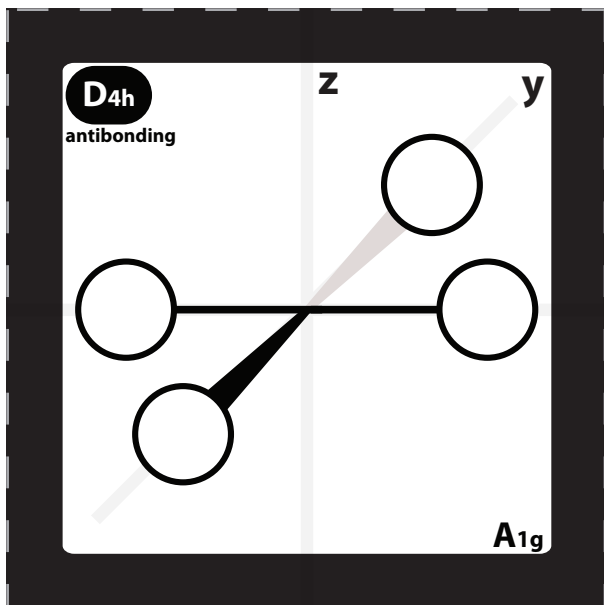
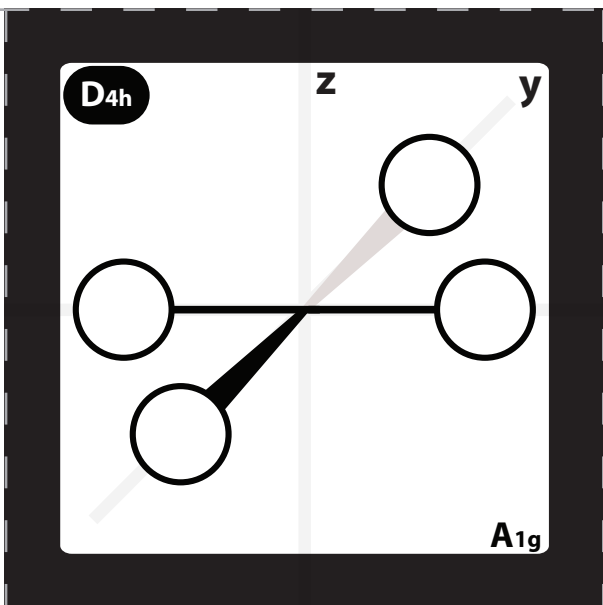
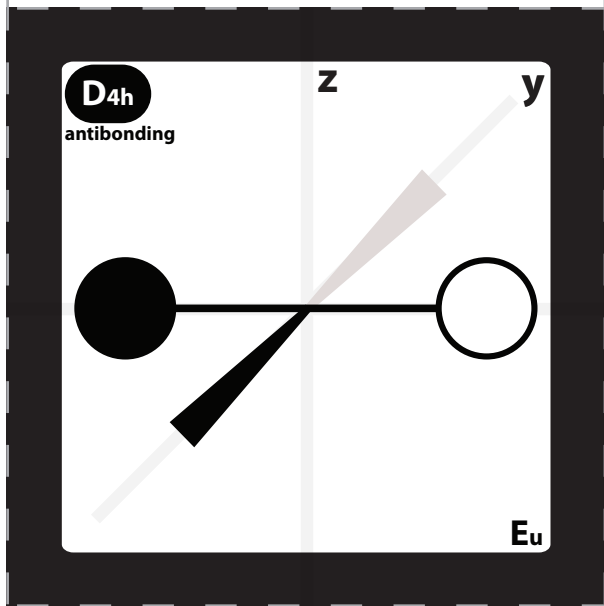
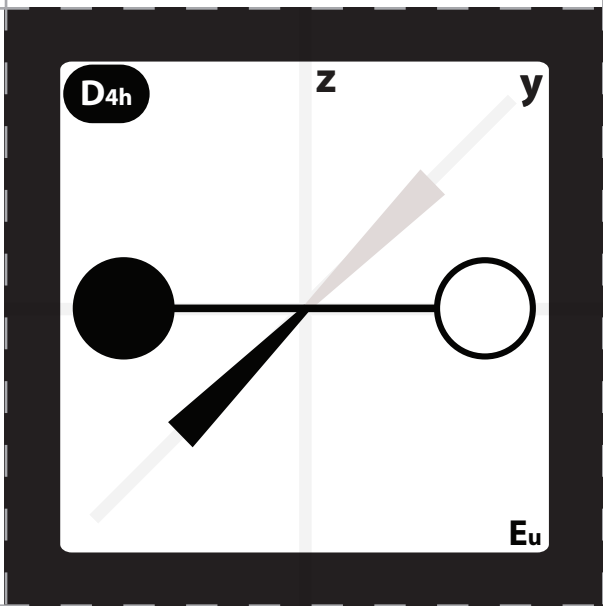


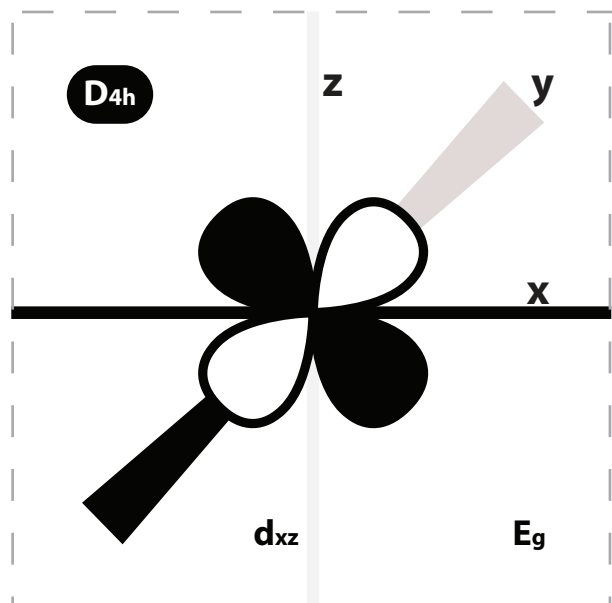
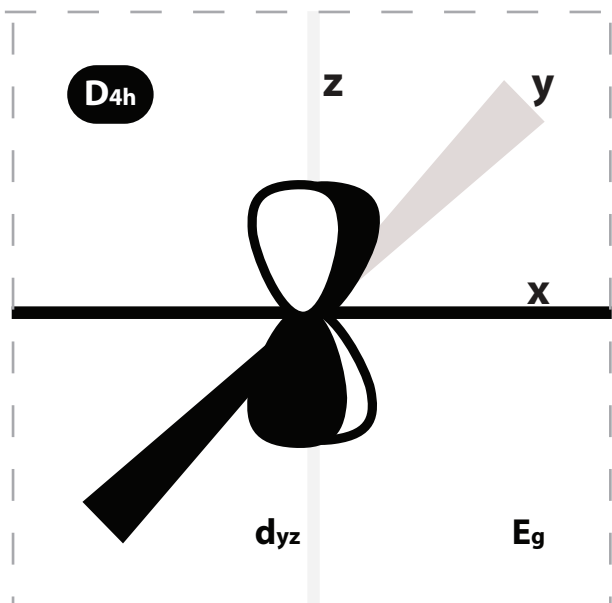
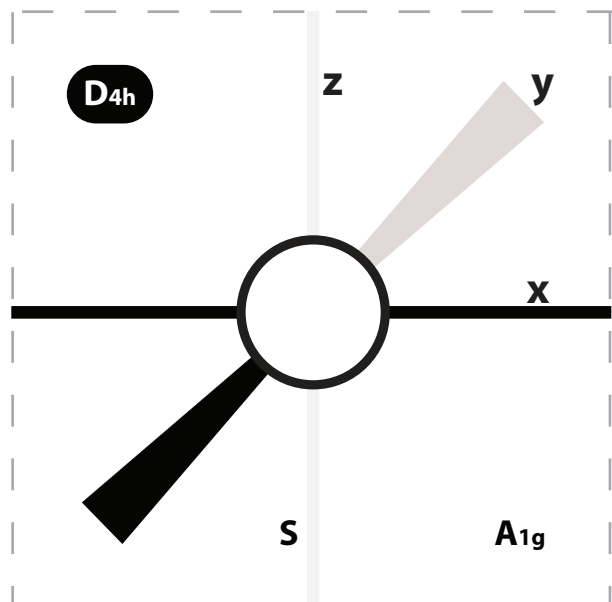
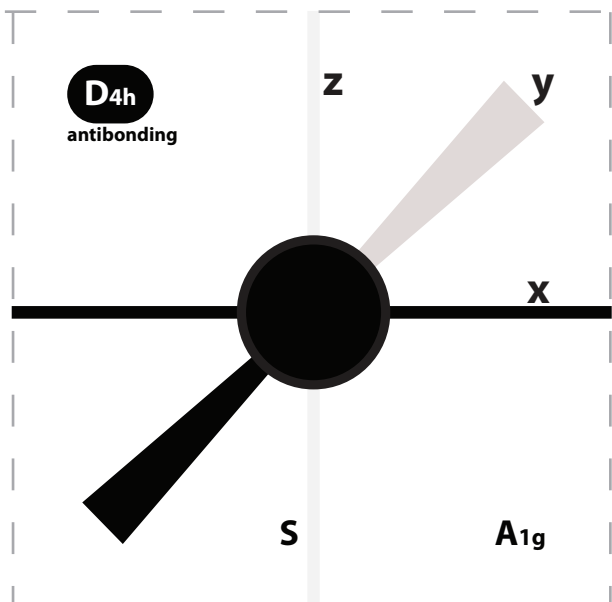
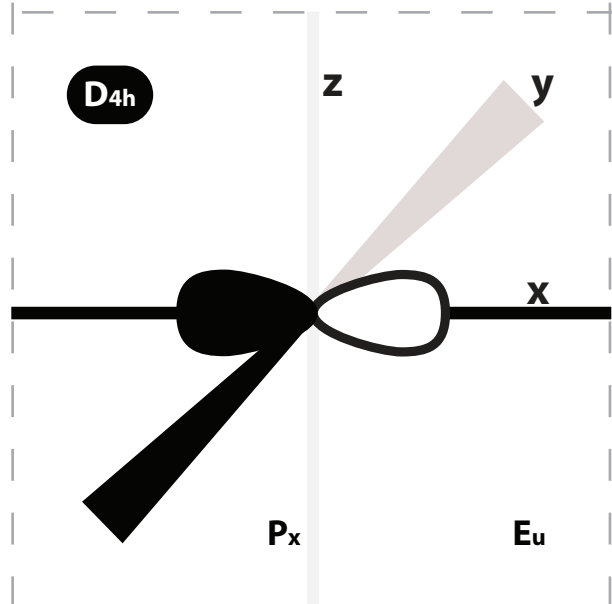
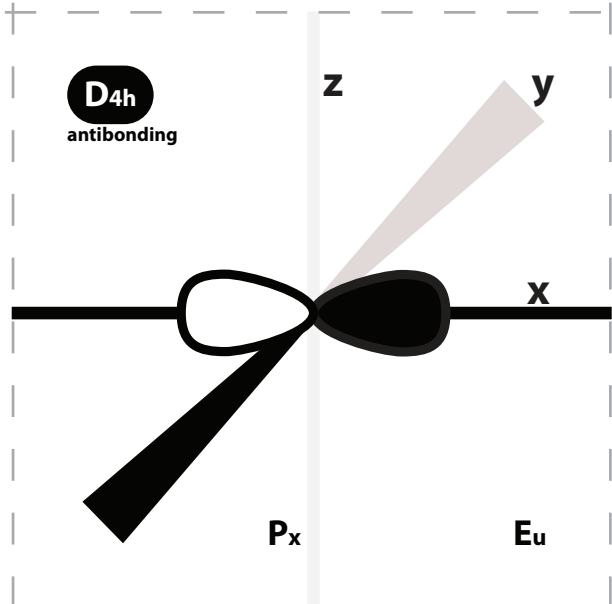
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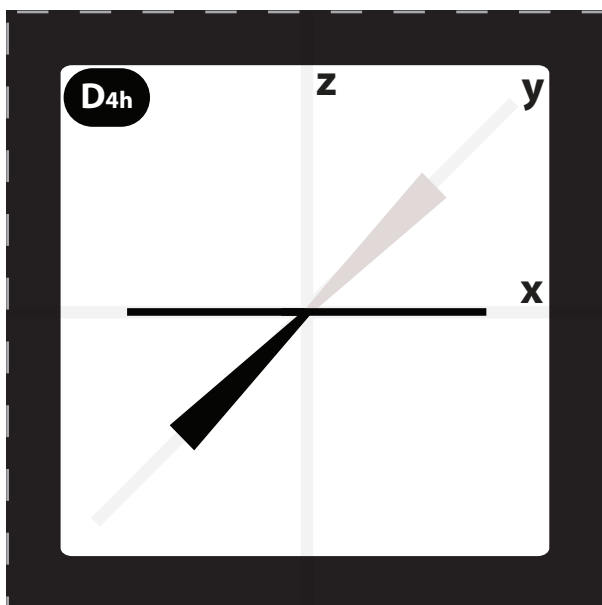
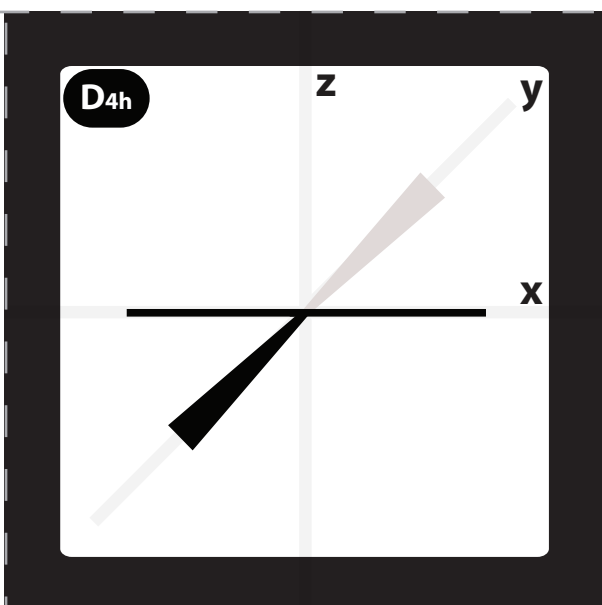
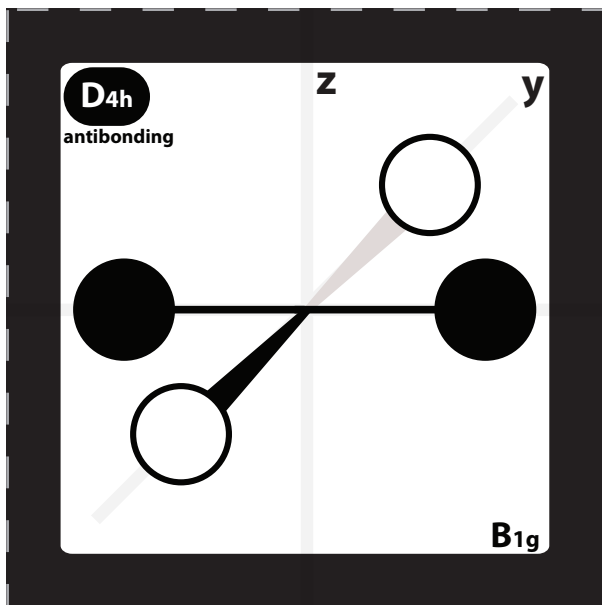
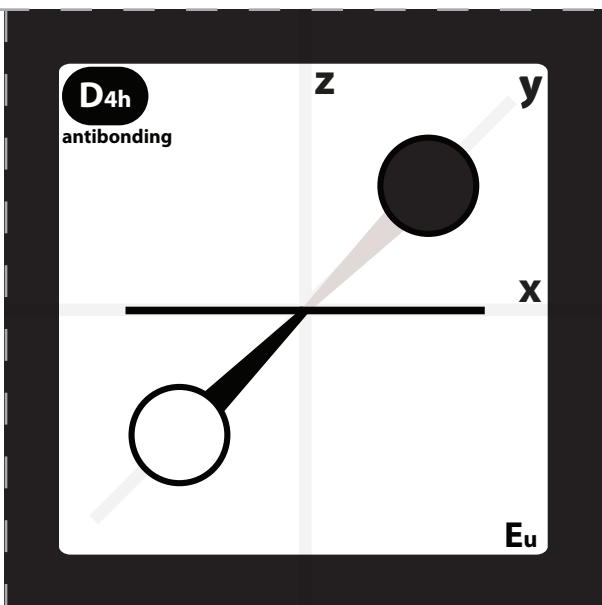
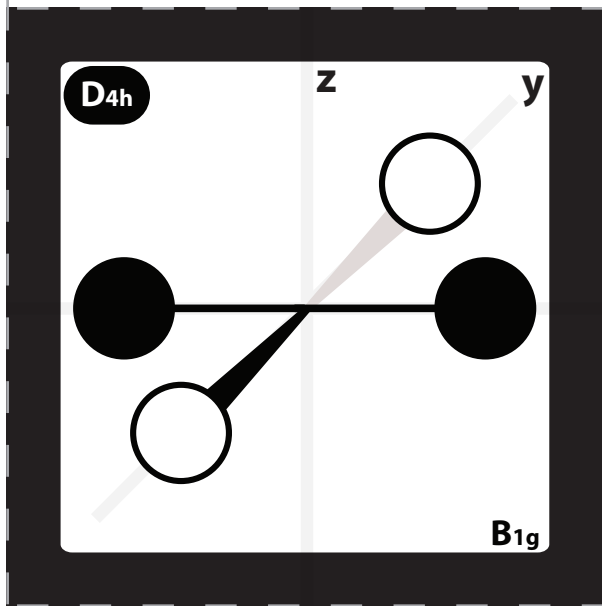
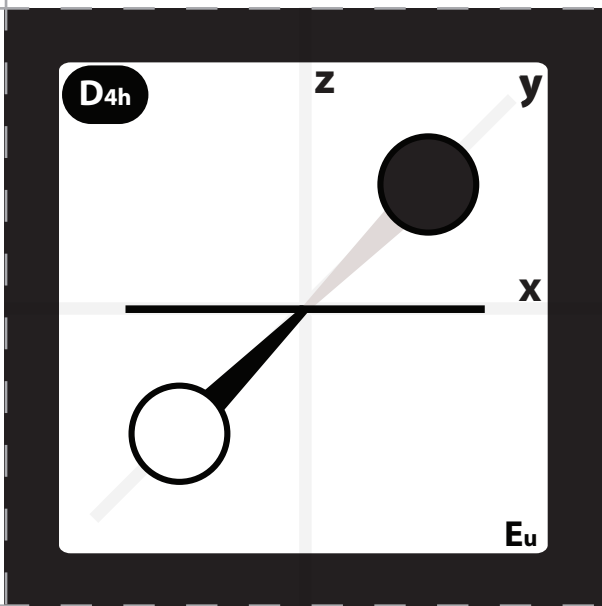


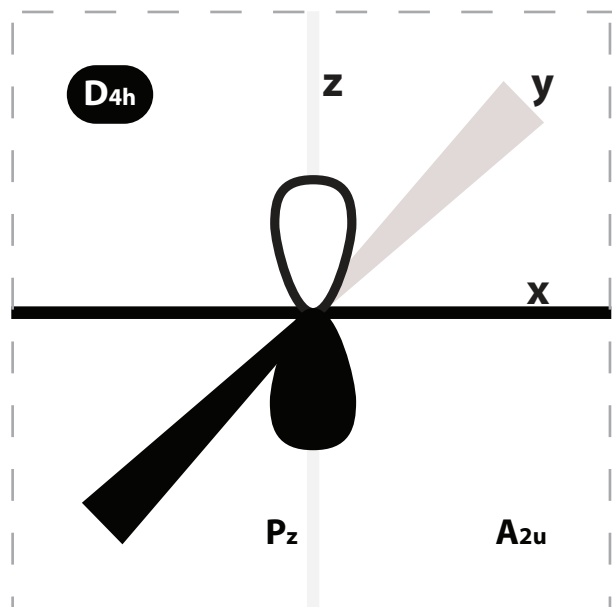
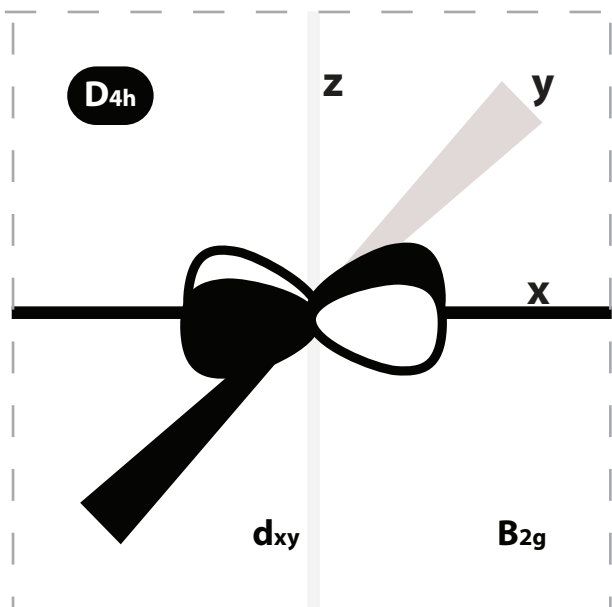
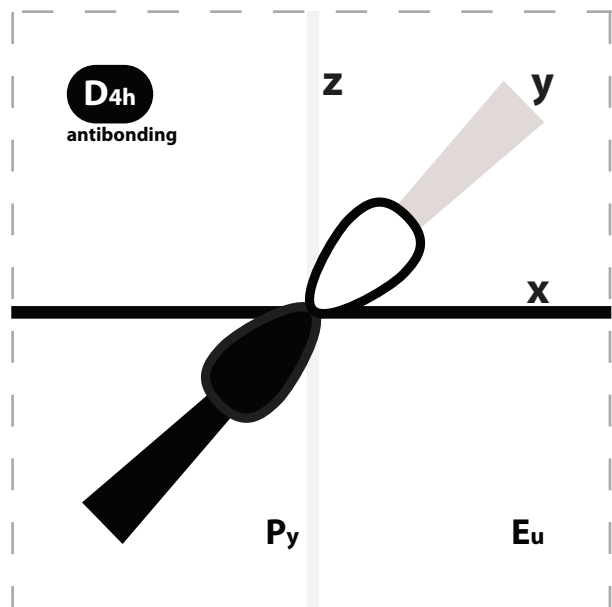
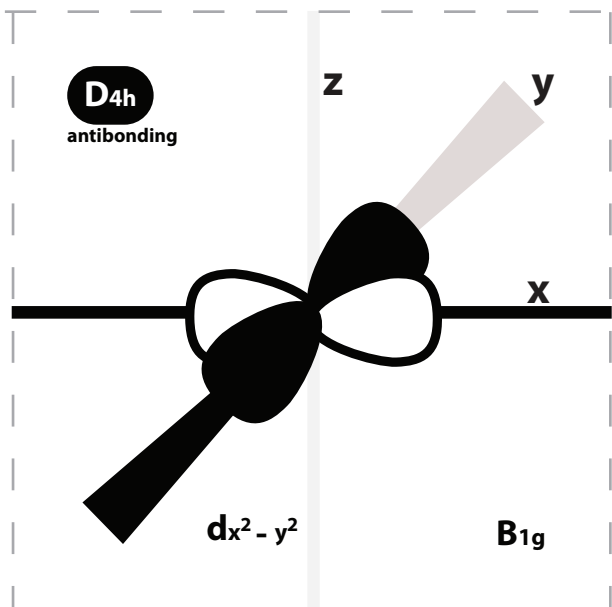
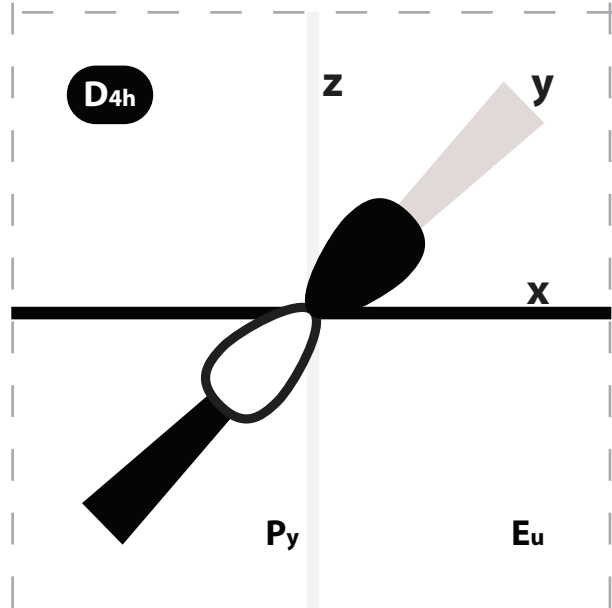
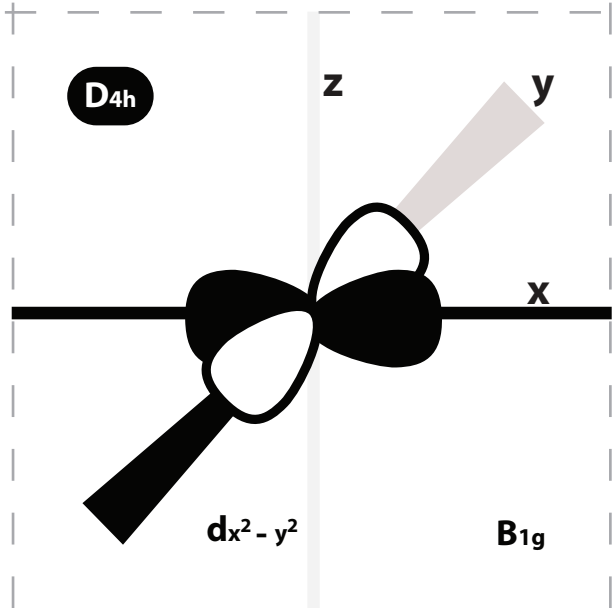


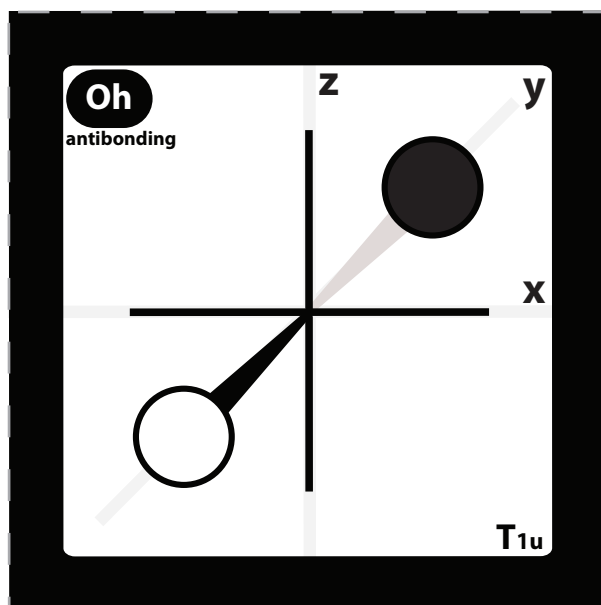
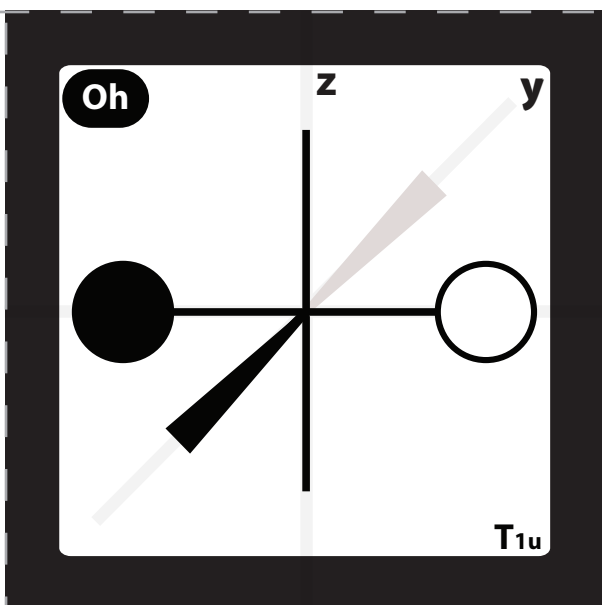
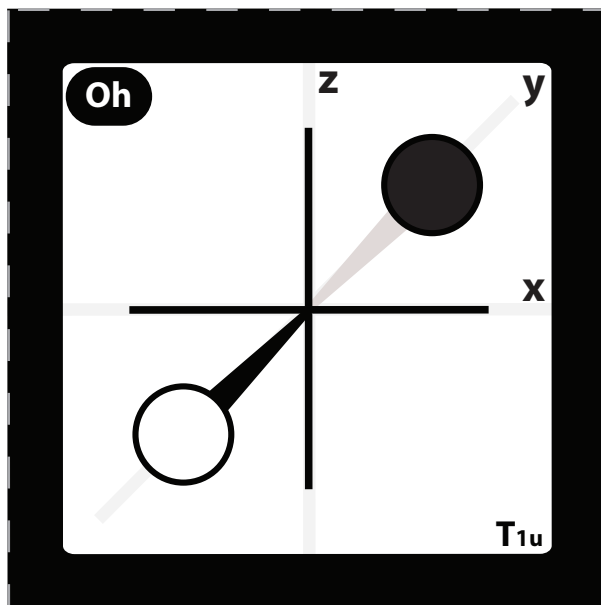
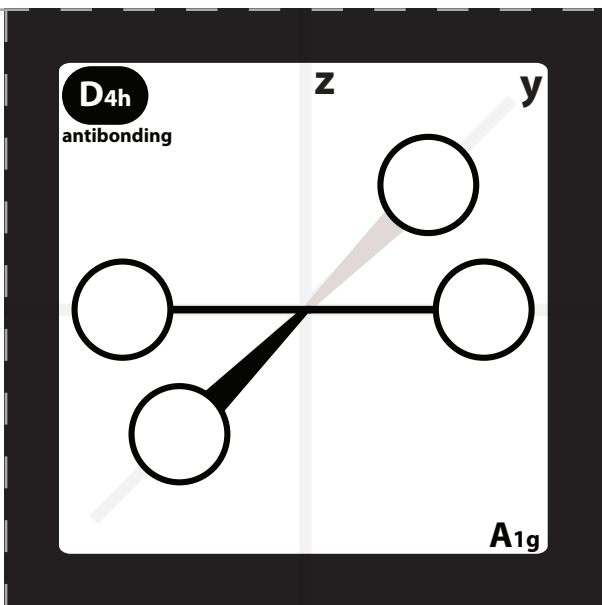
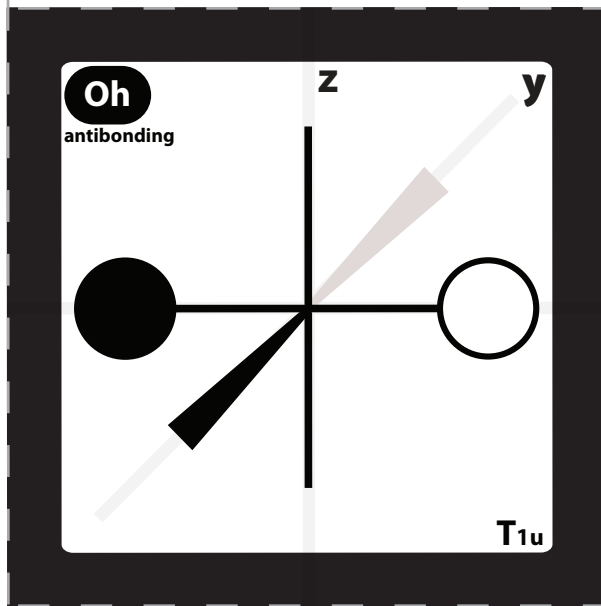
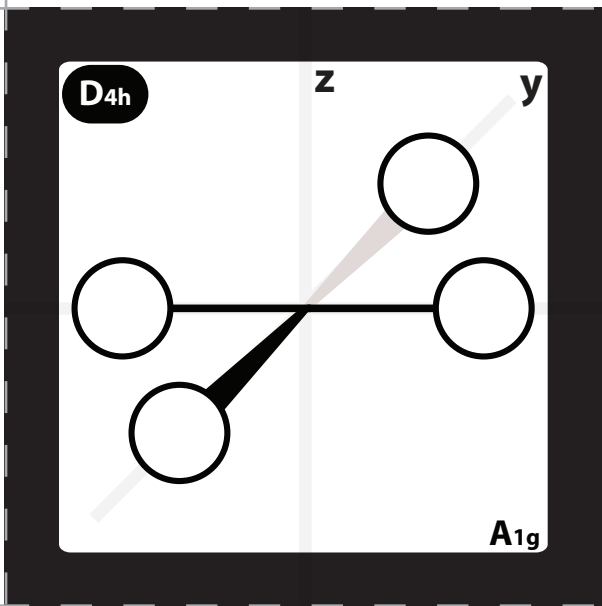


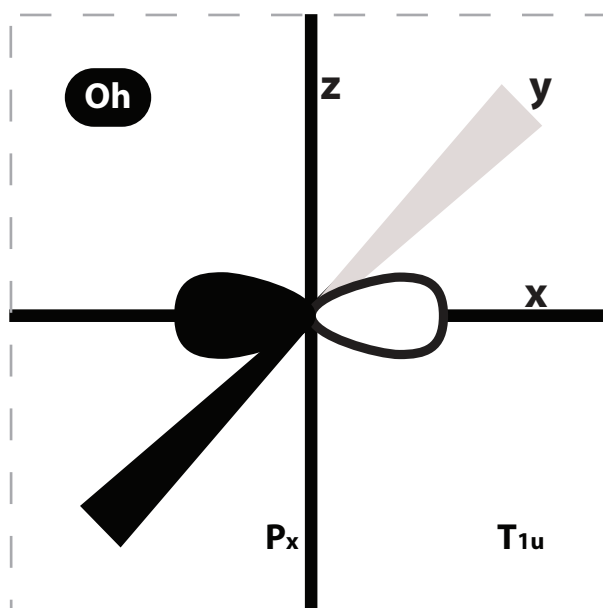
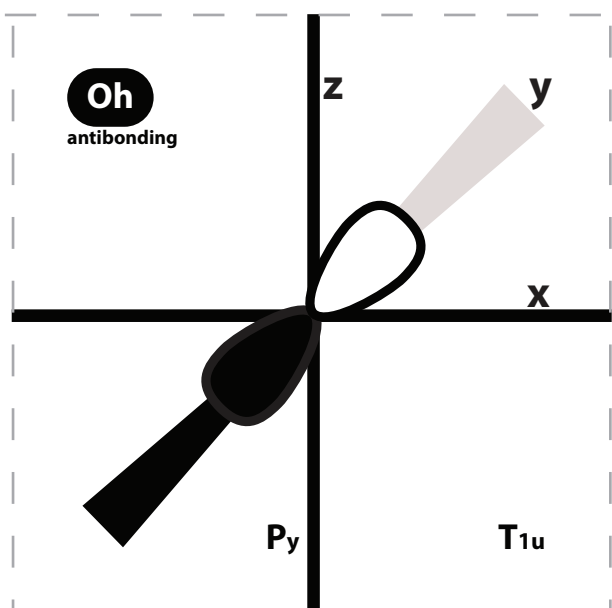
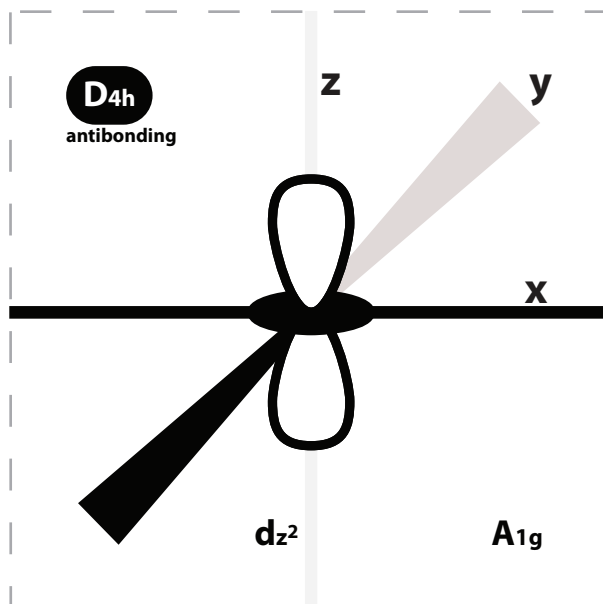
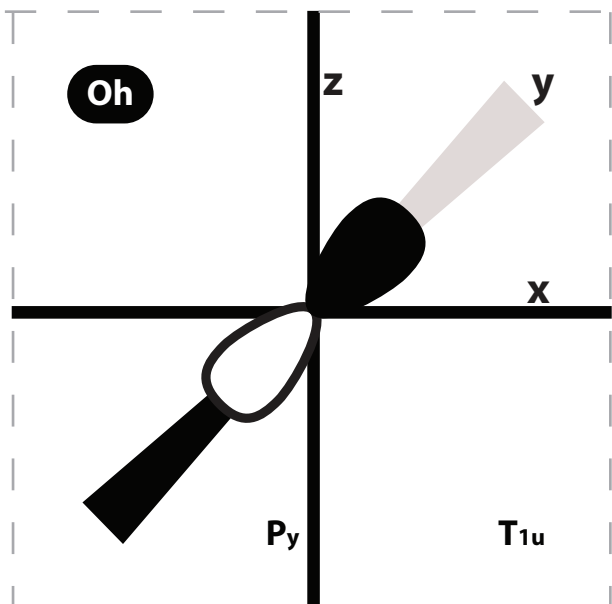
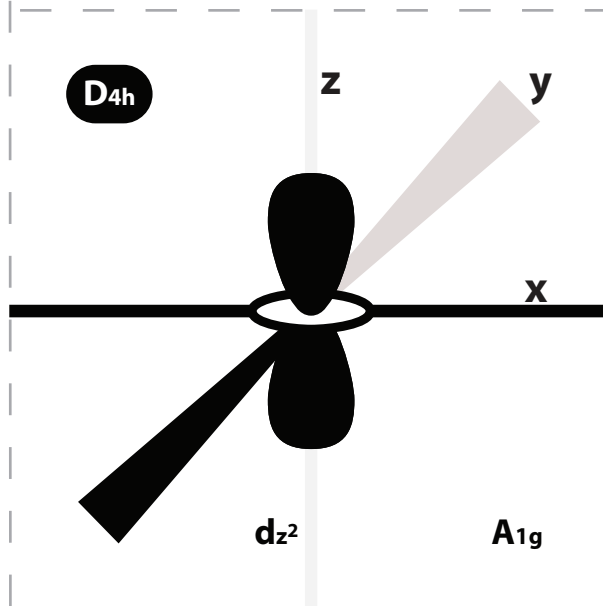
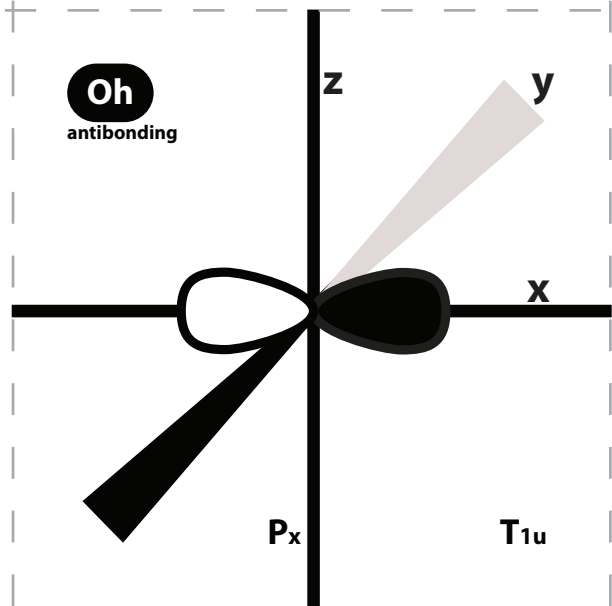


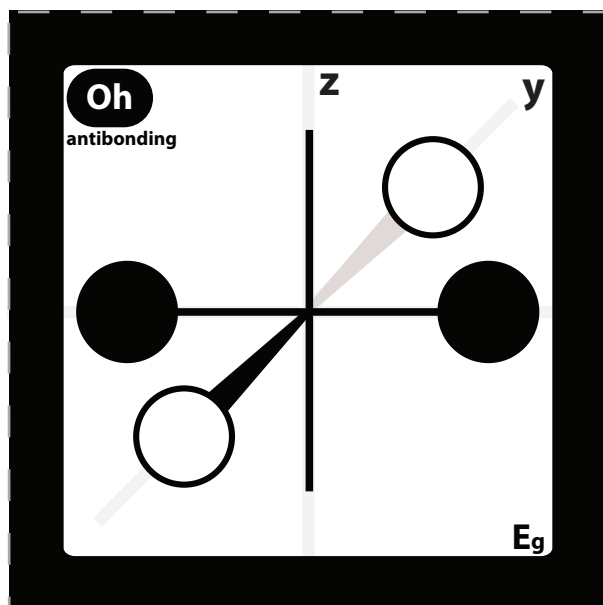
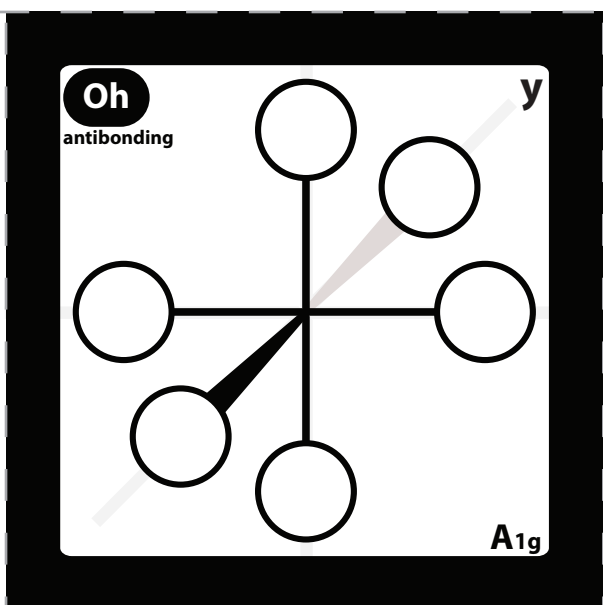
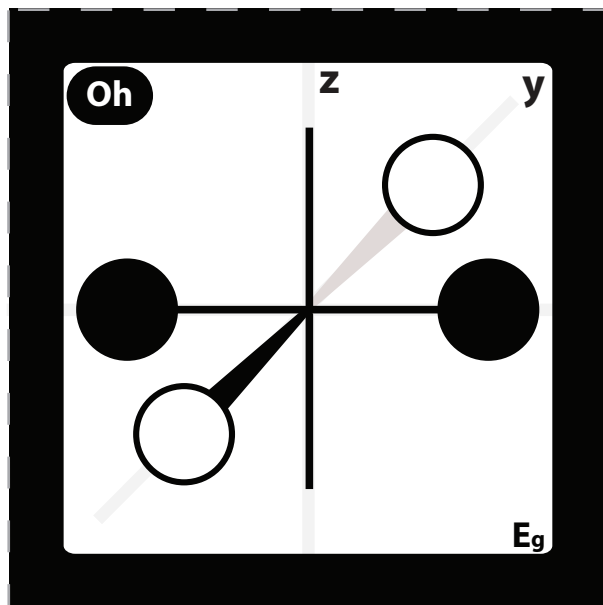
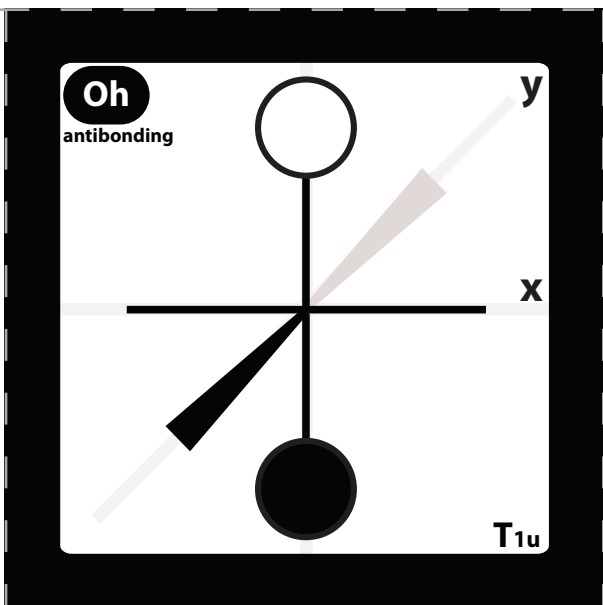
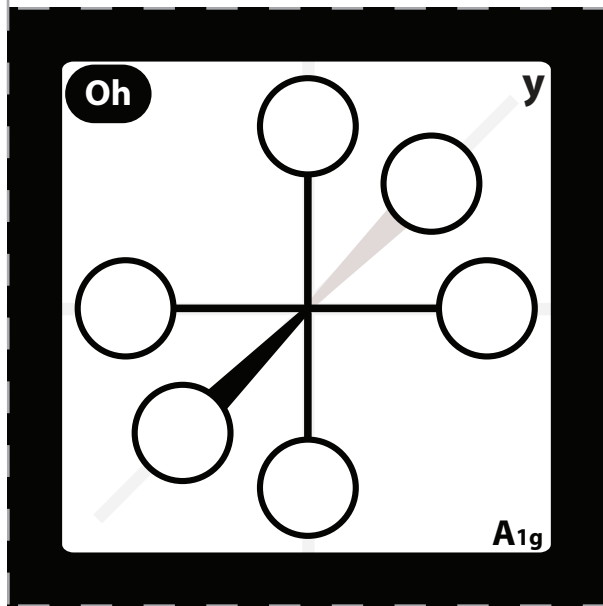
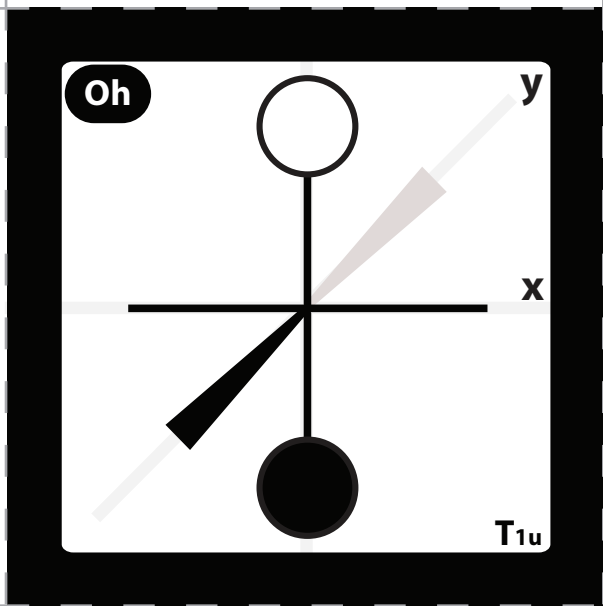


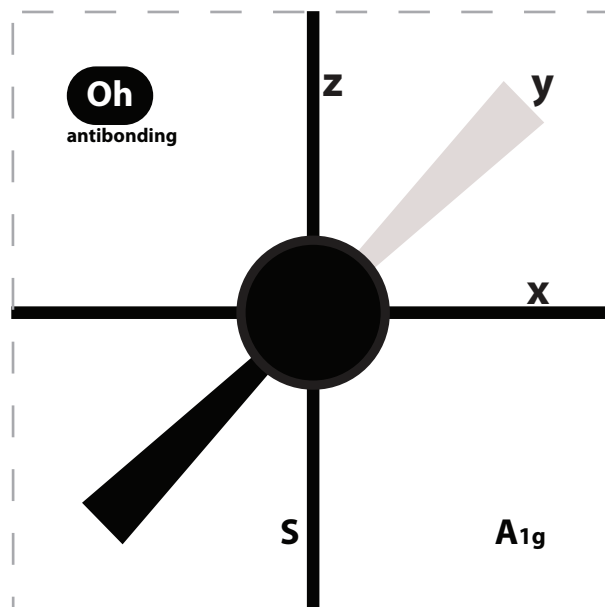
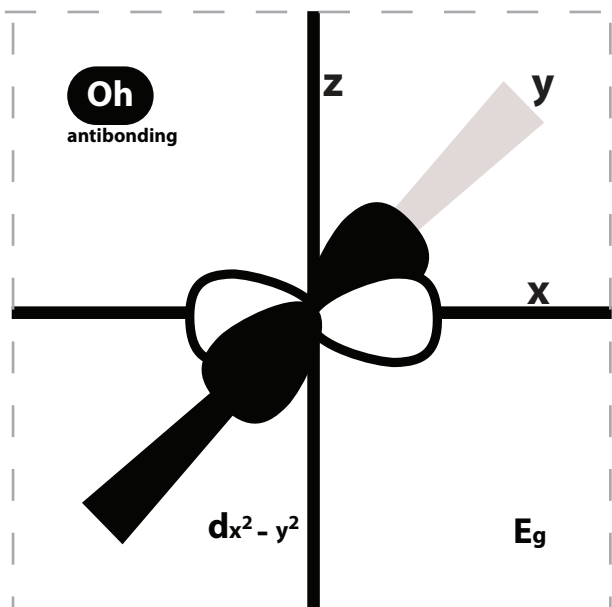
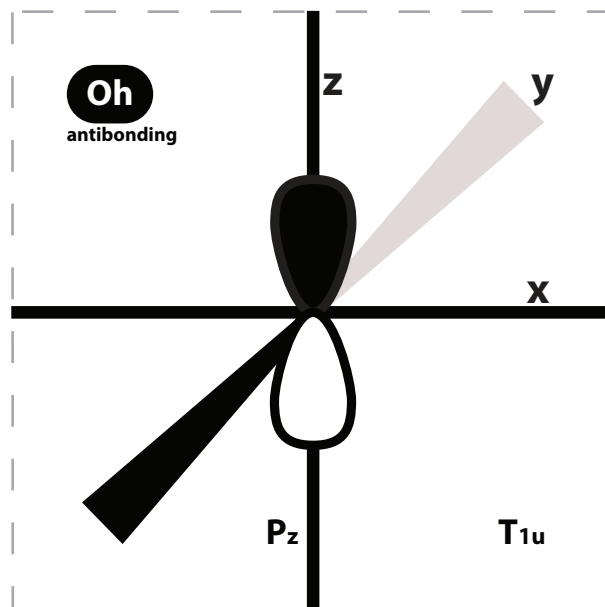
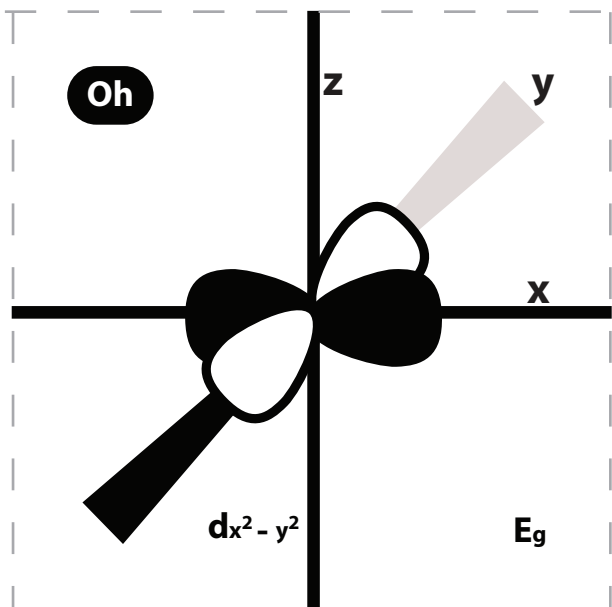
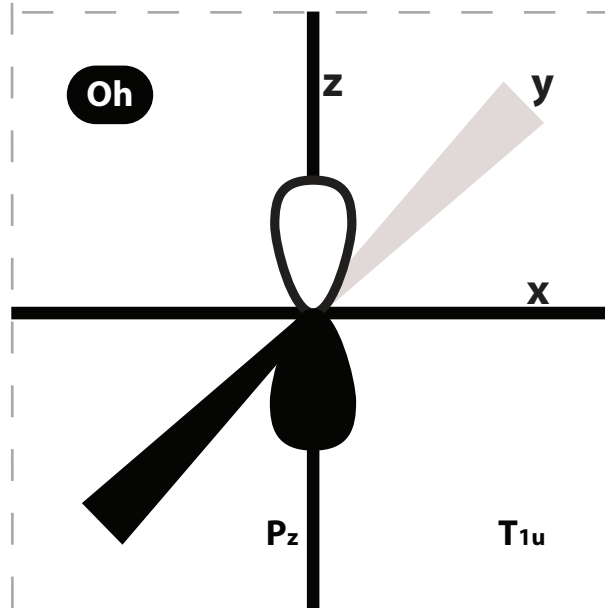
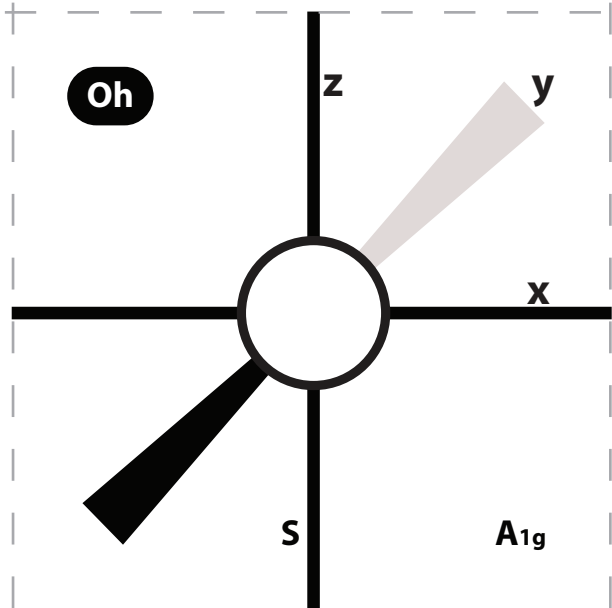


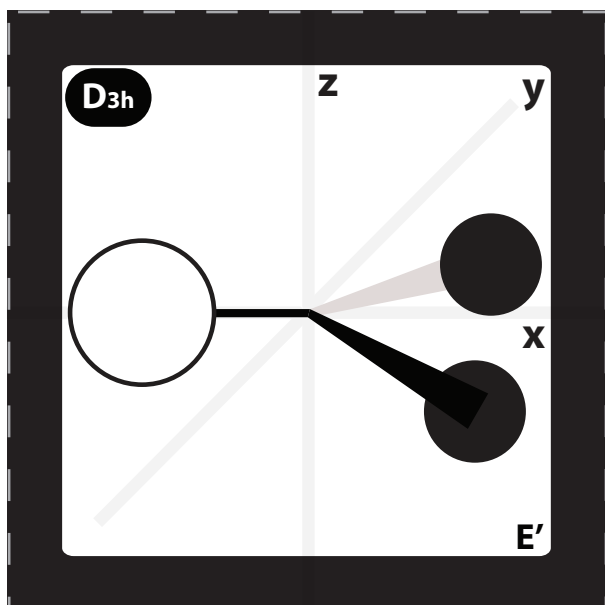
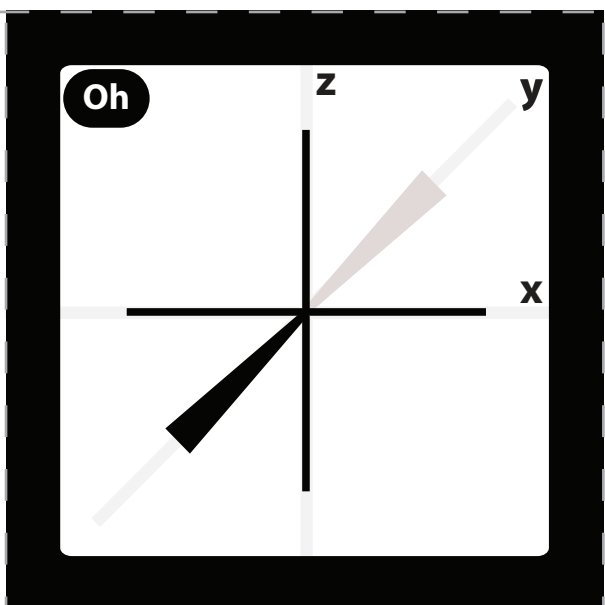
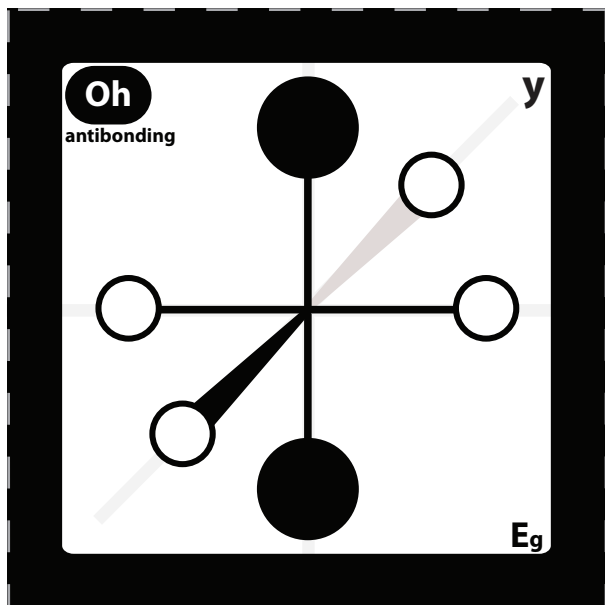
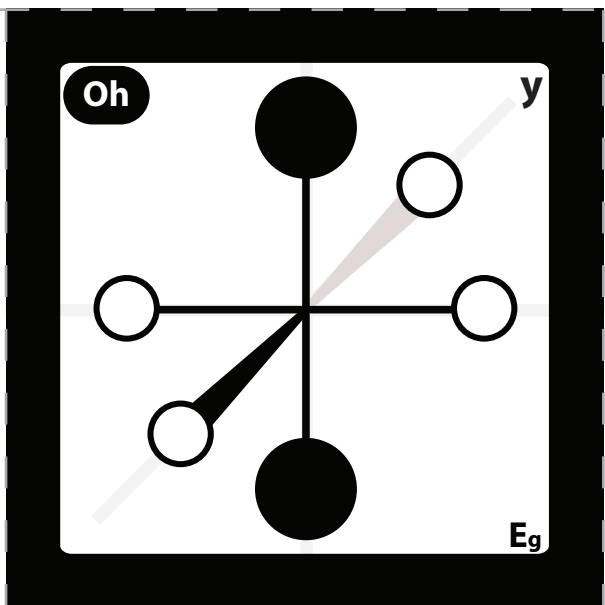
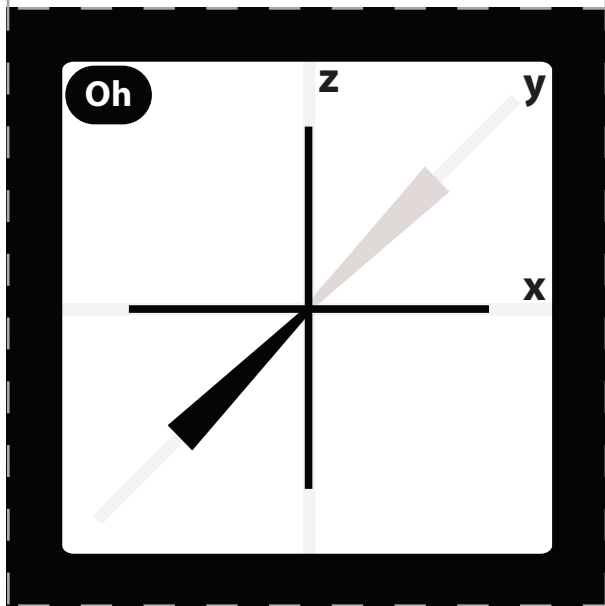
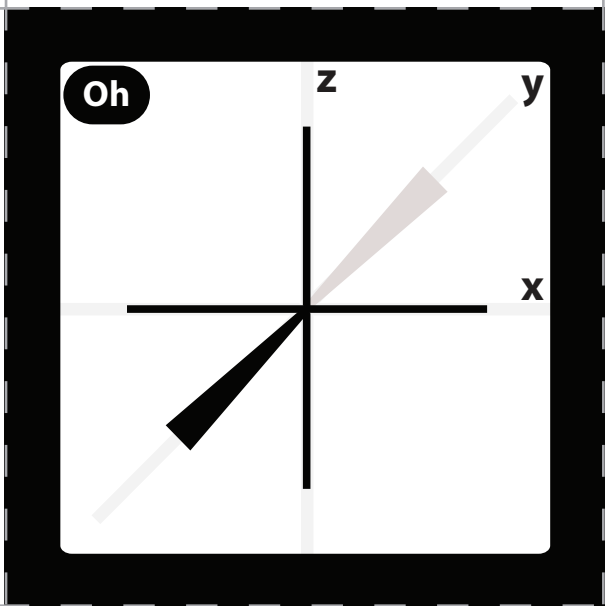


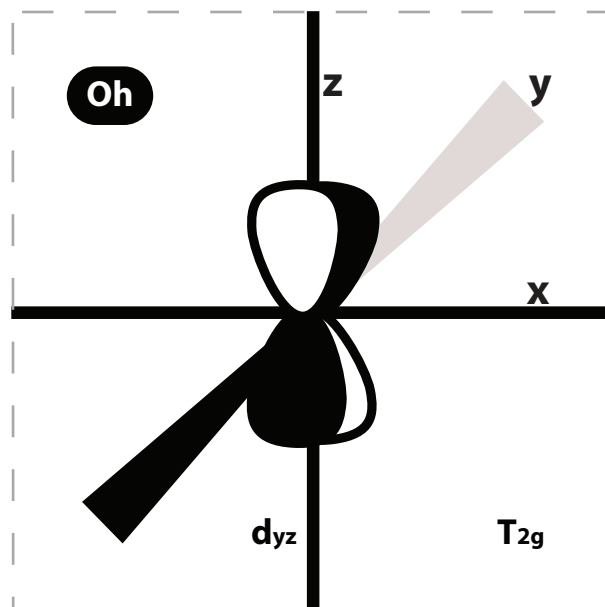
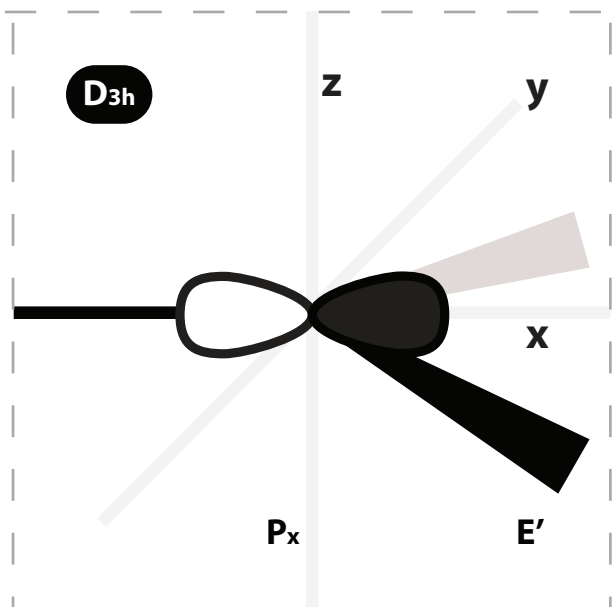
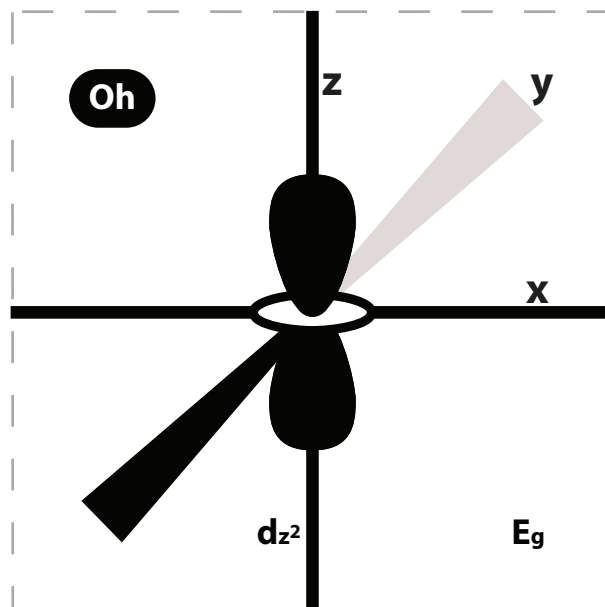
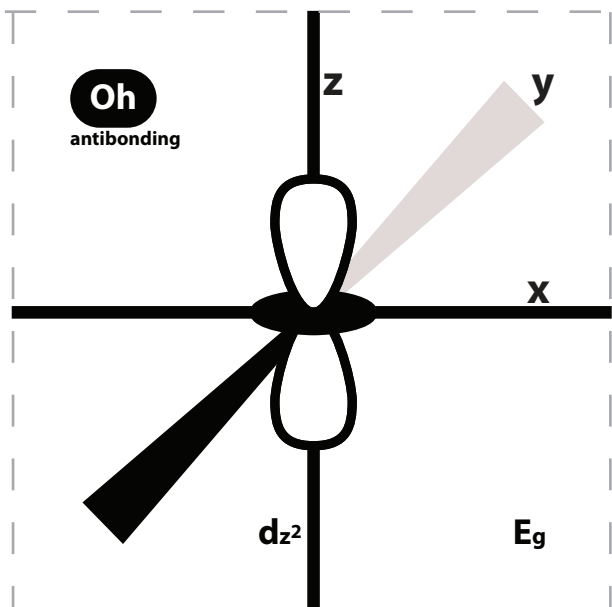
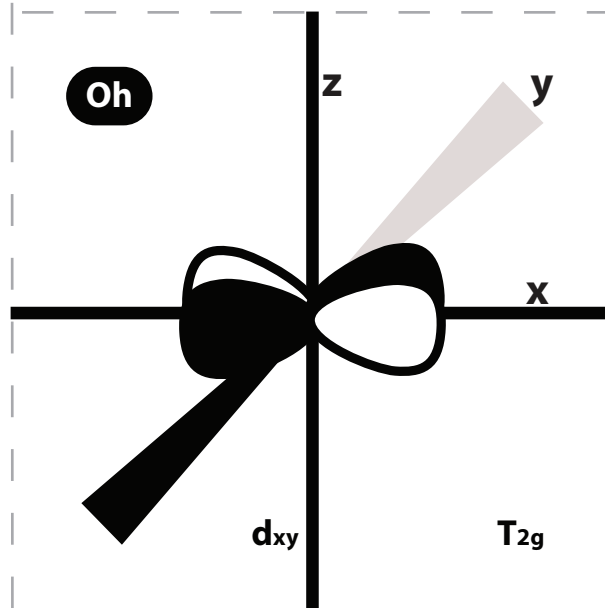
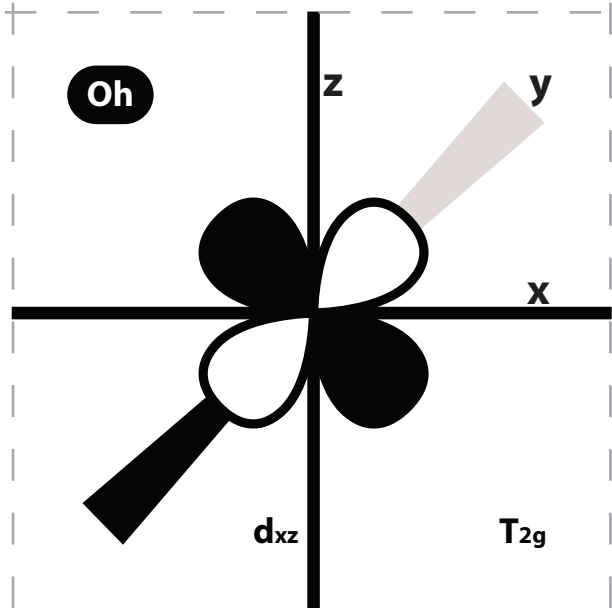




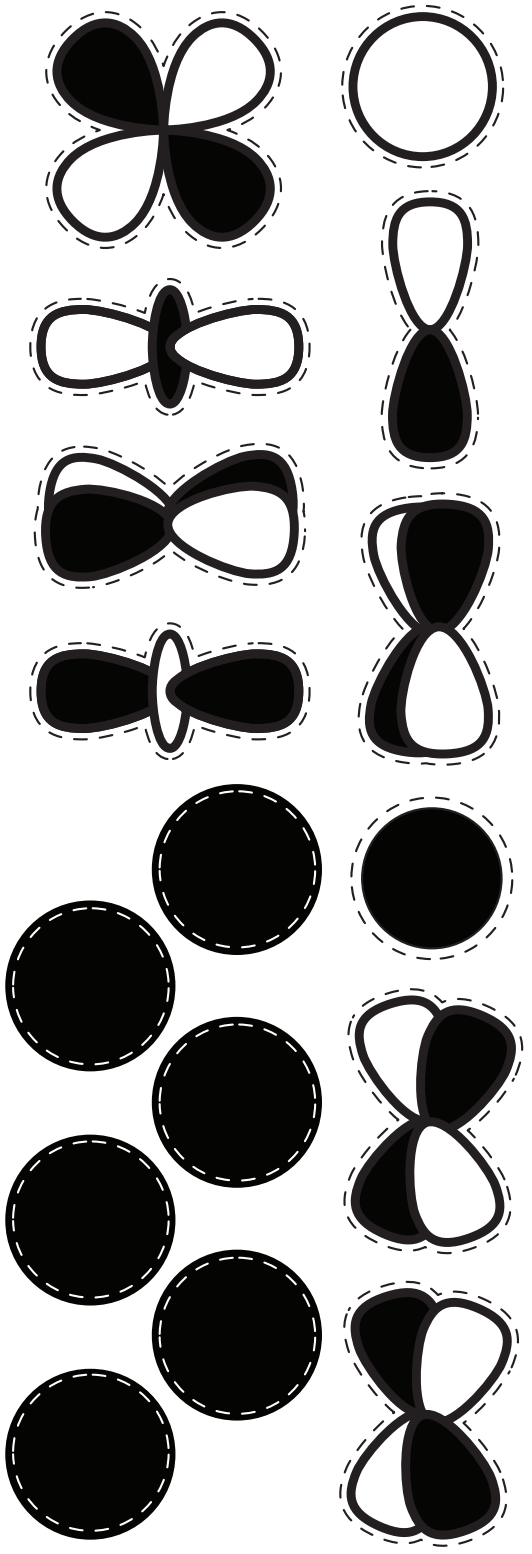












<i>s</i>		<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>
	<i>d<sub>xz</sub></i>				
<i>P<sub>x</sub> or P<sub>y</sub> or P<sub>z</sub></i>		<b>3</b>	<b>4</b>	<b>3</b>	<b>4</b>
	<i>z<sup>2</sup>p</i>				
		<b>5</b>	<b>6</b>	<b>5</b>	<b>6</b>
	<i>d<sub>yz</sub> or d<sub>xy</sub></i>				
<i>x<sup>2</sup>-y<sup>2</sup> p</i>		<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>
	<i>z<sup>2</sup>p</i>				
		<b>3</b>	<b>4</b>	<b>3</b>	<b>4</b>
<i>s</i>		<b>5</b>	<b>6</b>	<b>5</b>	<b>6</b>
		<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>
<i>z<sup>2</sup>-x<sup>2</sup>p</i>		<b>3</b>	<b>4</b>	<b>3</b>	<b>4</b>
		<b>5</b>	<b>6</b>	<b>5</b>	<b>6</b>

## WINNING BETS



## BETTING AREA



## LOSING BETS





**CENTER ATOM'S  
ORBITAL AREA**

**BETTING AREA**

**YES**

**YES**

**YES**

**NO**

**NO**

**NO**

**LIGAND ATOMIC  
ORBITAL AREA**

