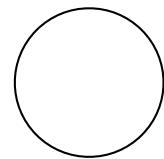


$$\varphi_1 = \varphi_{sA} + \varphi_{sB}$$



$$\varphi_2 = \varphi_{sA} - \varphi_{sB}$$

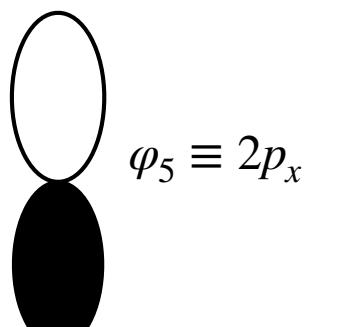


$$\varphi_3 \equiv 2s$$

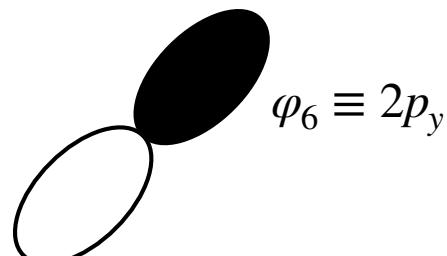


Be

$$\varphi_4 \equiv 2p_z$$

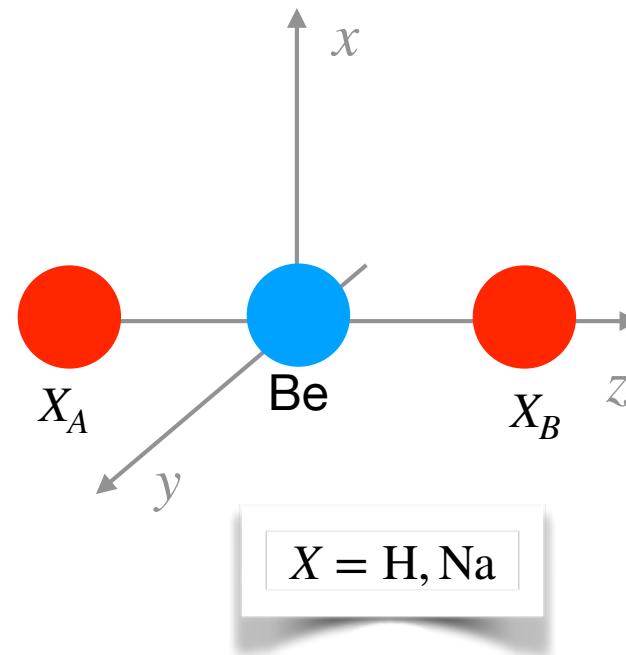


$$\varphi_5 \equiv 2p_x$$



Be

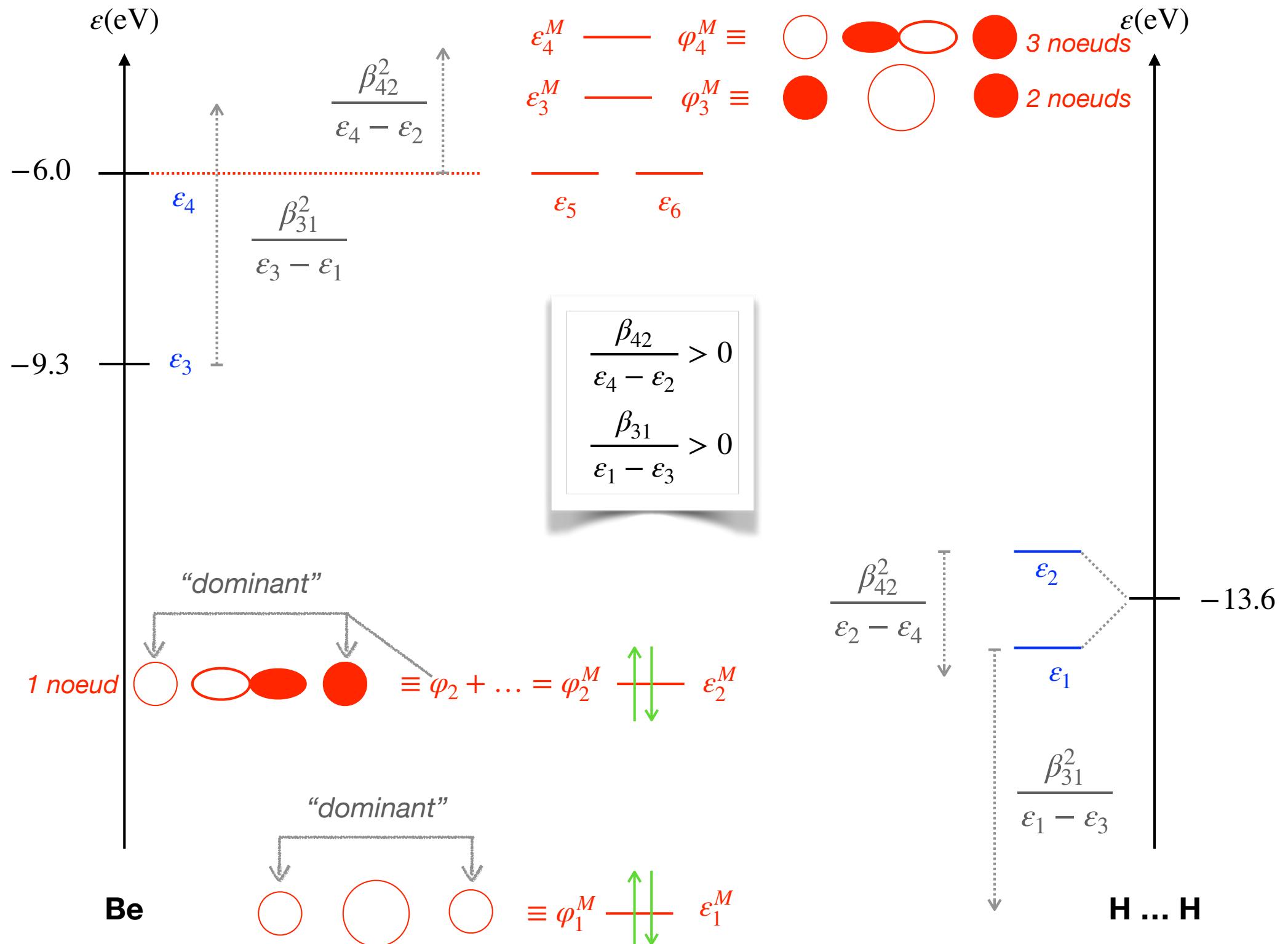
$$\varphi_6 \equiv 2p_y$$

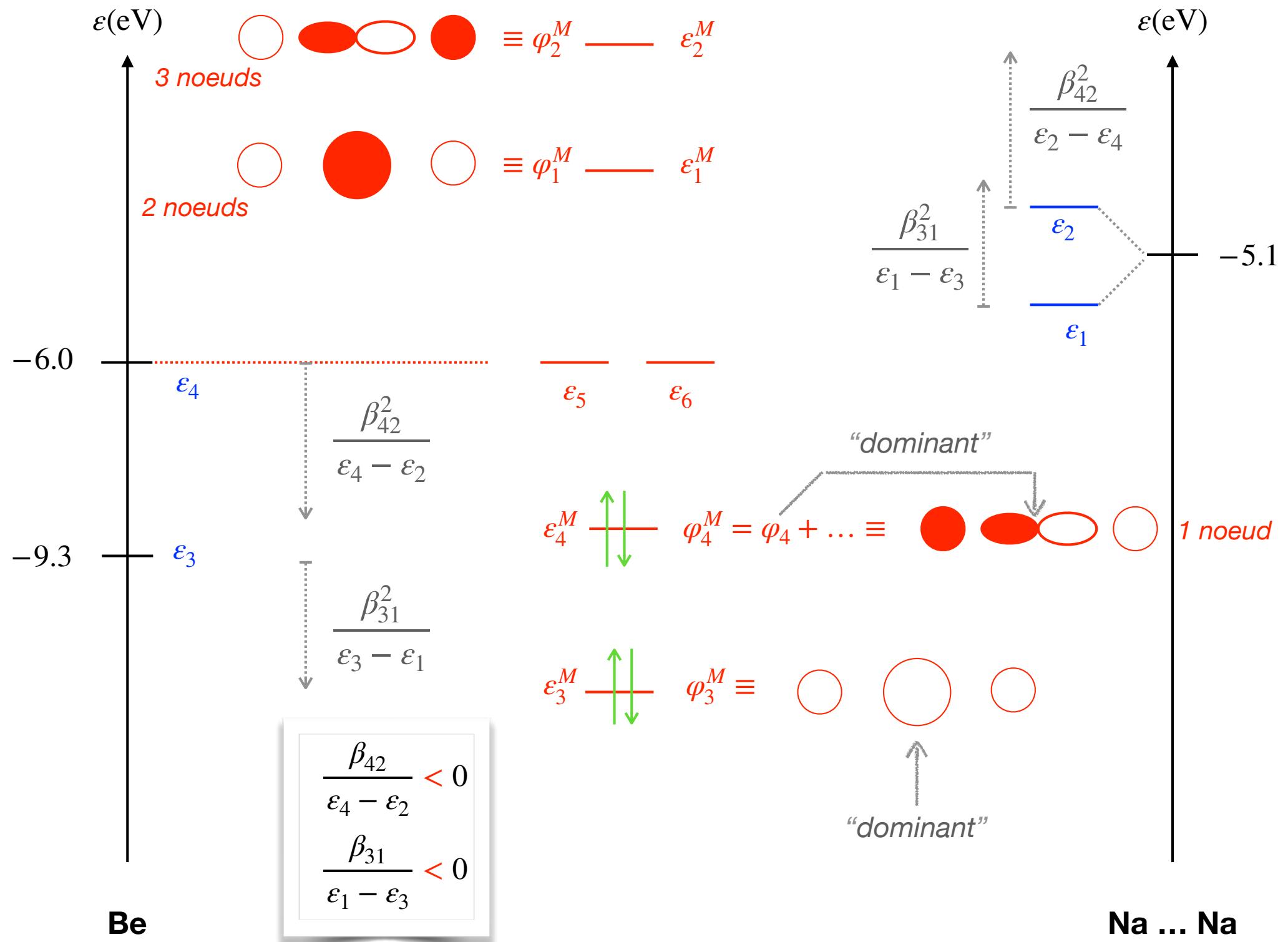


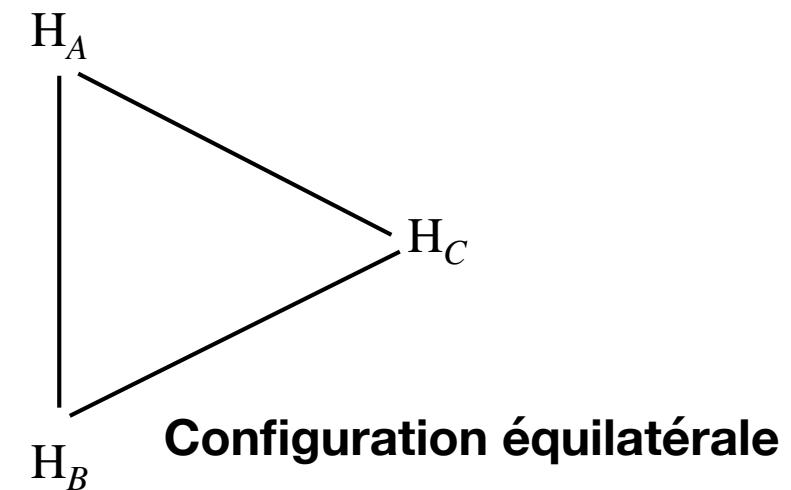
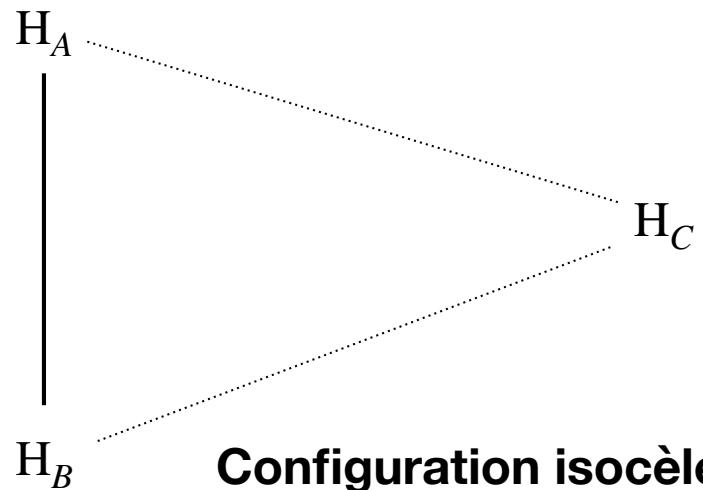
$$\int d\mathbf{r} \varphi_3(\mathbf{r}) \times \varphi_{s_A}(\mathbf{r}) \equiv \int d\mathbf{r} \quad \begin{array}{c} \text{circle} \\ X_A \end{array} \times \begin{array}{c} \text{circle} \\ \text{Be} \end{array} = \int d\mathbf{r} \quad \begin{array}{c} \text{circle} \\ \text{Be} \end{array} \times \begin{array}{c} \text{circle} \\ X_B \end{array} = \int d\mathbf{r} \varphi_3(\mathbf{r}) \times \varphi_{s_B}(\mathbf{r}) > 0$$

$$\int d\mathbf{r} \varphi_4(\mathbf{r}) \times \varphi_{s_A}(\mathbf{r}) \equiv \int d\mathbf{r} \quad \begin{array}{c} \text{circle} \\ X_A \end{array} \times \begin{array}{c} \text{black oval} \\ \text{white oval} \\ \text{Be} \end{array} = - \int d\mathbf{r} \quad \begin{array}{c} \text{black oval} \\ \text{white oval} \\ \text{Be} \end{array} \times \begin{array}{c} \text{circle} \\ X_B \end{array}$$

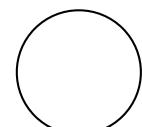
$$= - \int d\mathbf{r} \varphi_4(\mathbf{r}) \times \varphi_{s_B}(\mathbf{r}) < 0$$





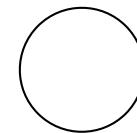


$$\varphi_1 = \varphi_{sA} + \varphi_{sB} \equiv$$

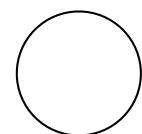


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$$\varphi_2 = \varphi_{sA} - \varphi_{sB} \equiv$$

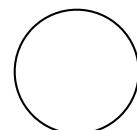


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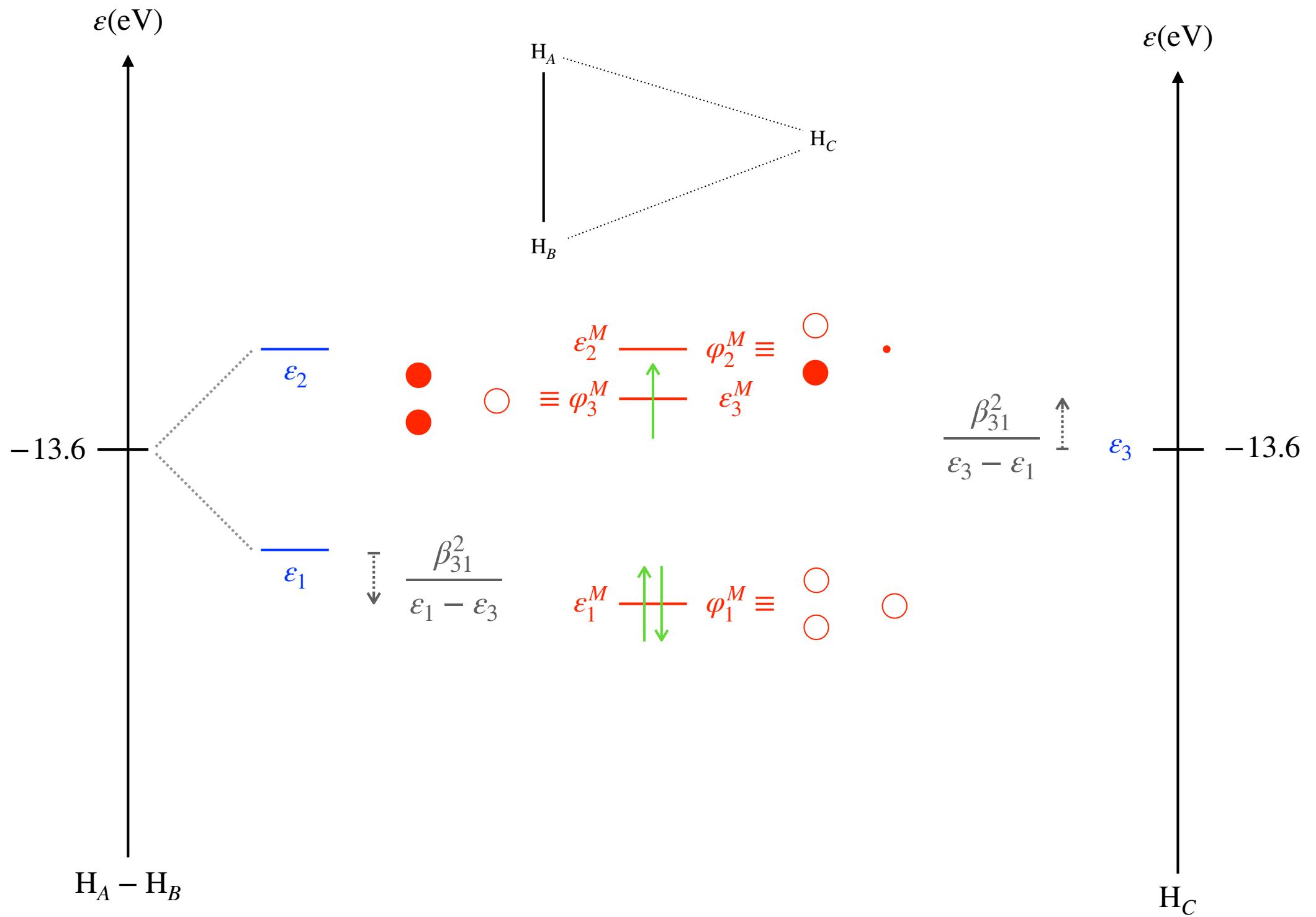


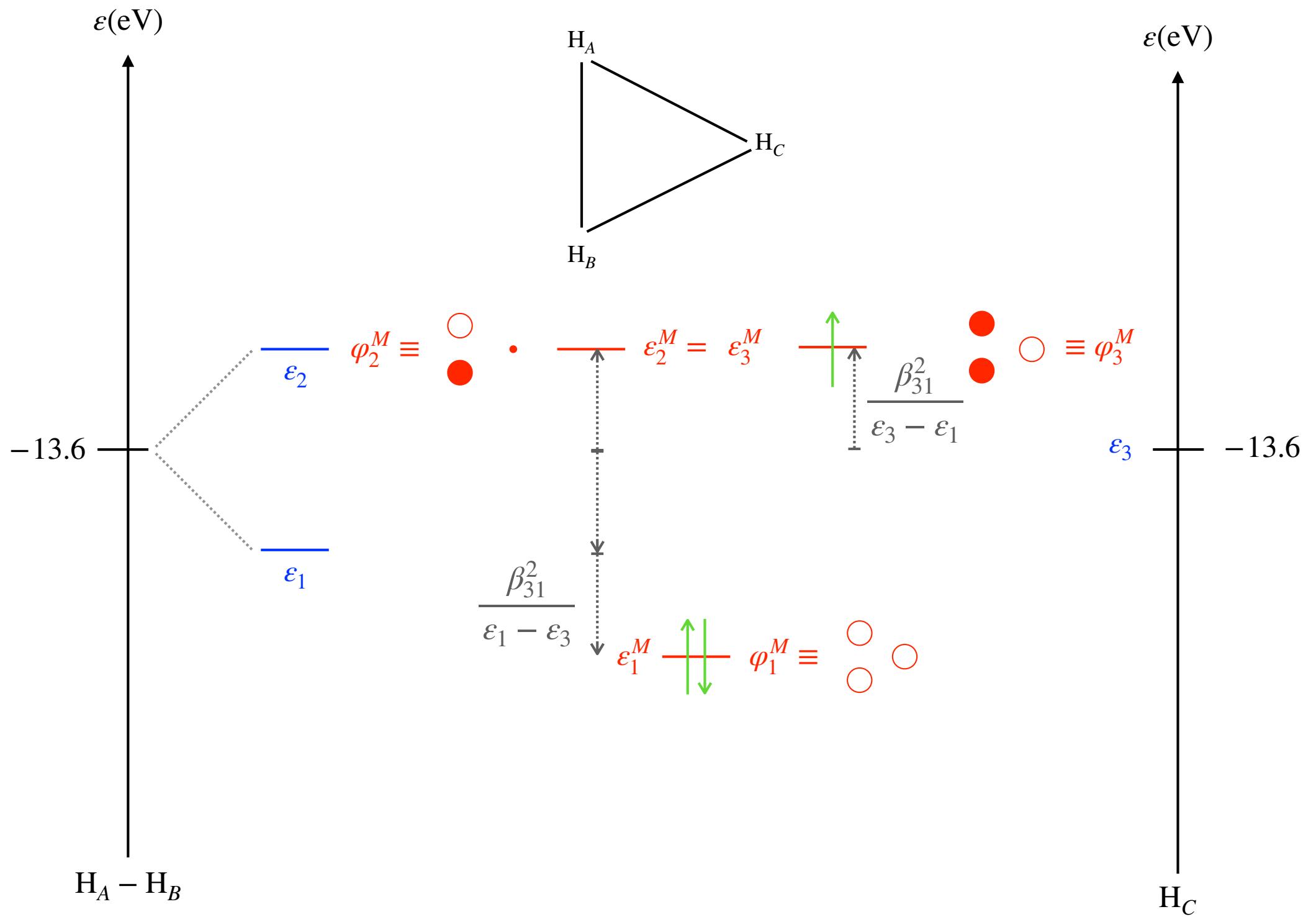
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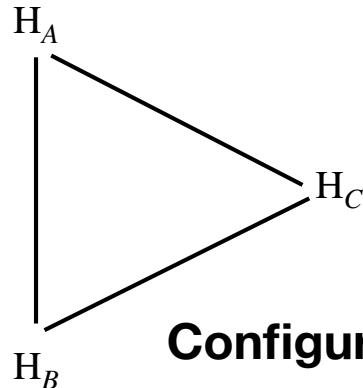
$$\varphi_3 = \varphi_{sC} \equiv$$



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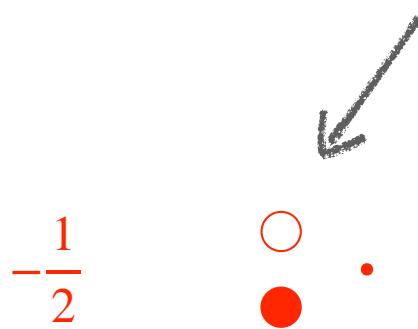




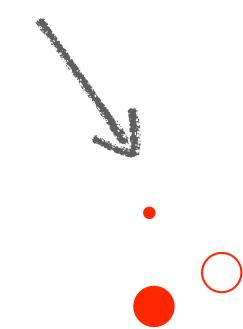


Configuration équilatérale

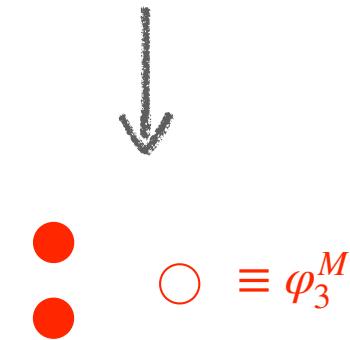
Orbitales “équivalentes” (et donc combinables) d’énergie ε_2^M



+



\equiv



$$\varphi_{s_A}(\mathbf{r}) - \varphi_{s_B}(\mathbf{r})$$

$$\varphi_{s_C}(\mathbf{r}) - \varphi_{s_B}(\mathbf{r})$$

$$\varphi_{s_C}(\mathbf{r}) - \frac{1}{2} \left[\varphi_{s_A}(\mathbf{r}) + \varphi_{s_B}(\mathbf{r}) \right]$$

