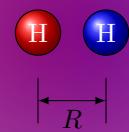
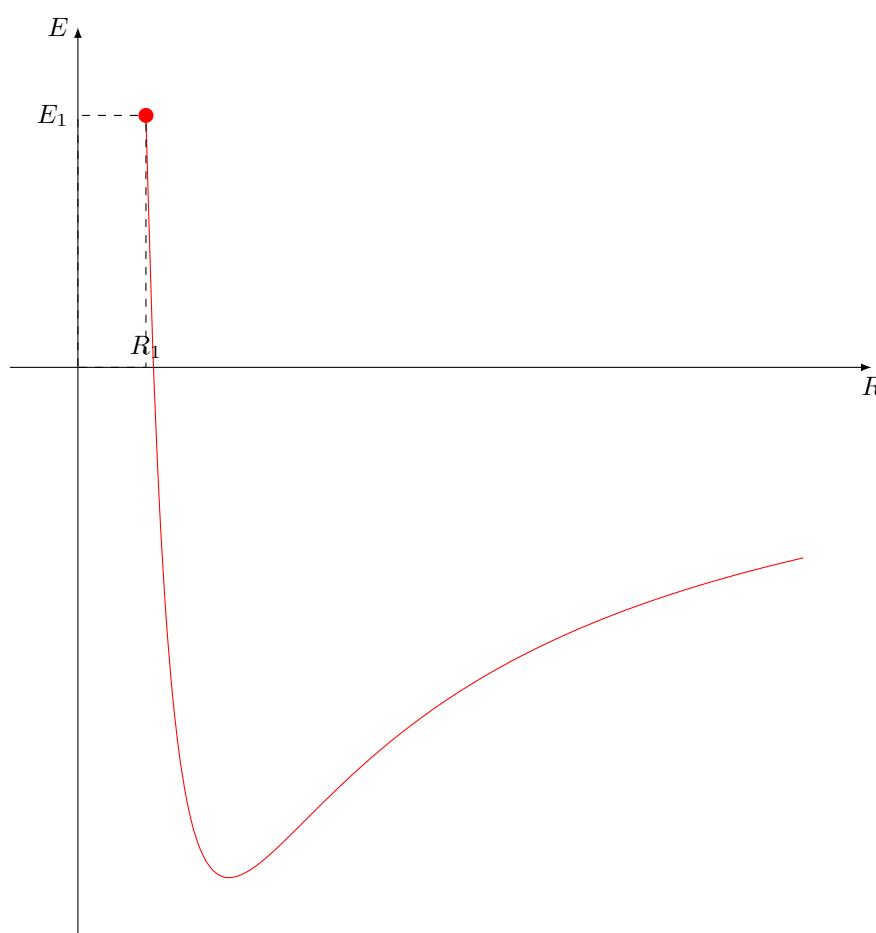


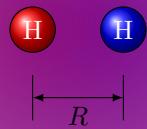
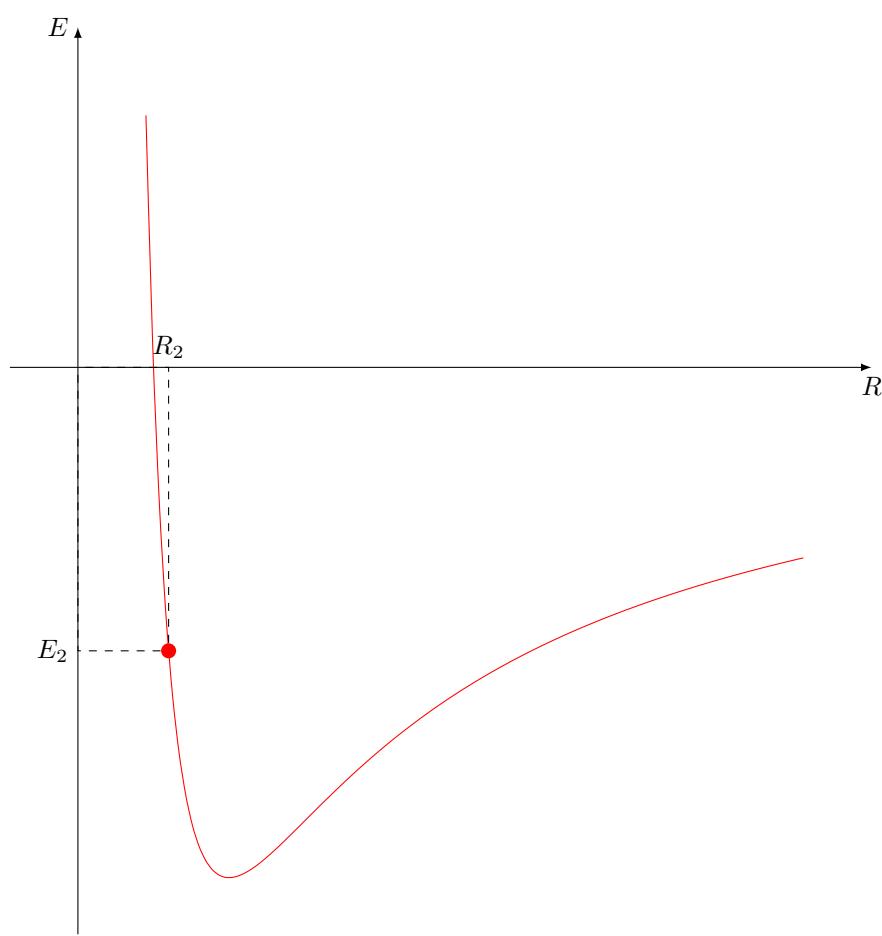
## Optimization chemical bond length

$$\begin{array}{c|c} R & E \\ \hline R_1 & E_1 \end{array}$$



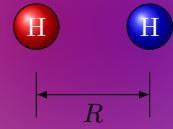
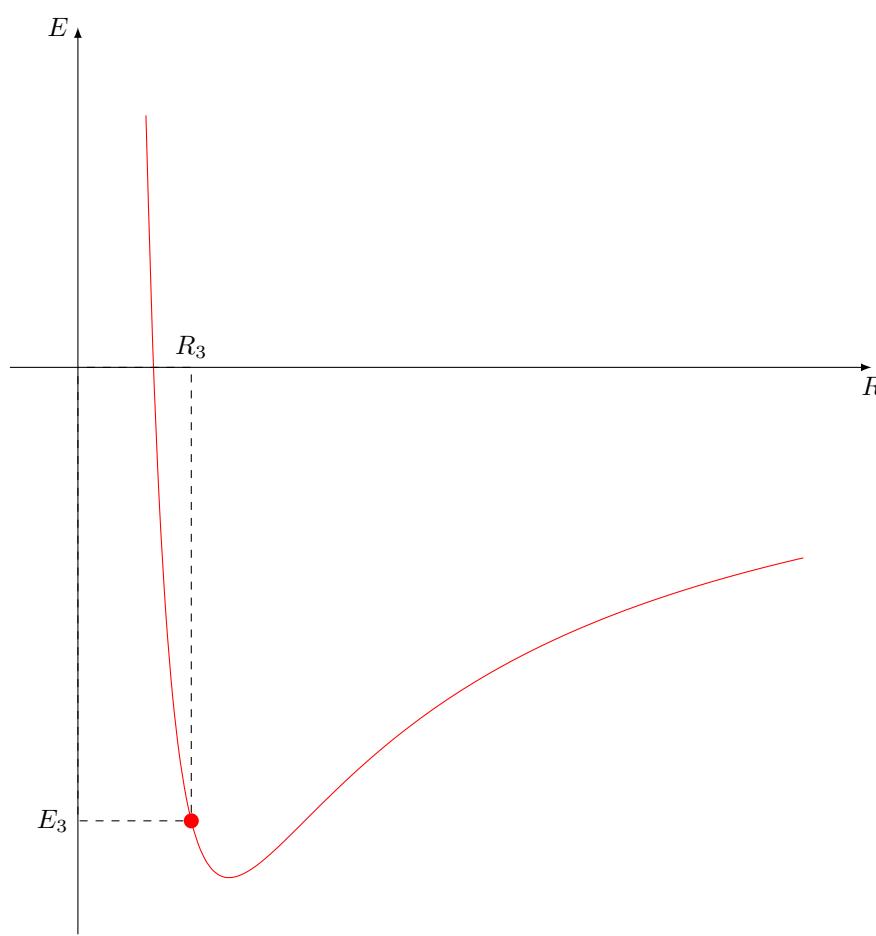
## Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$



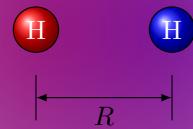
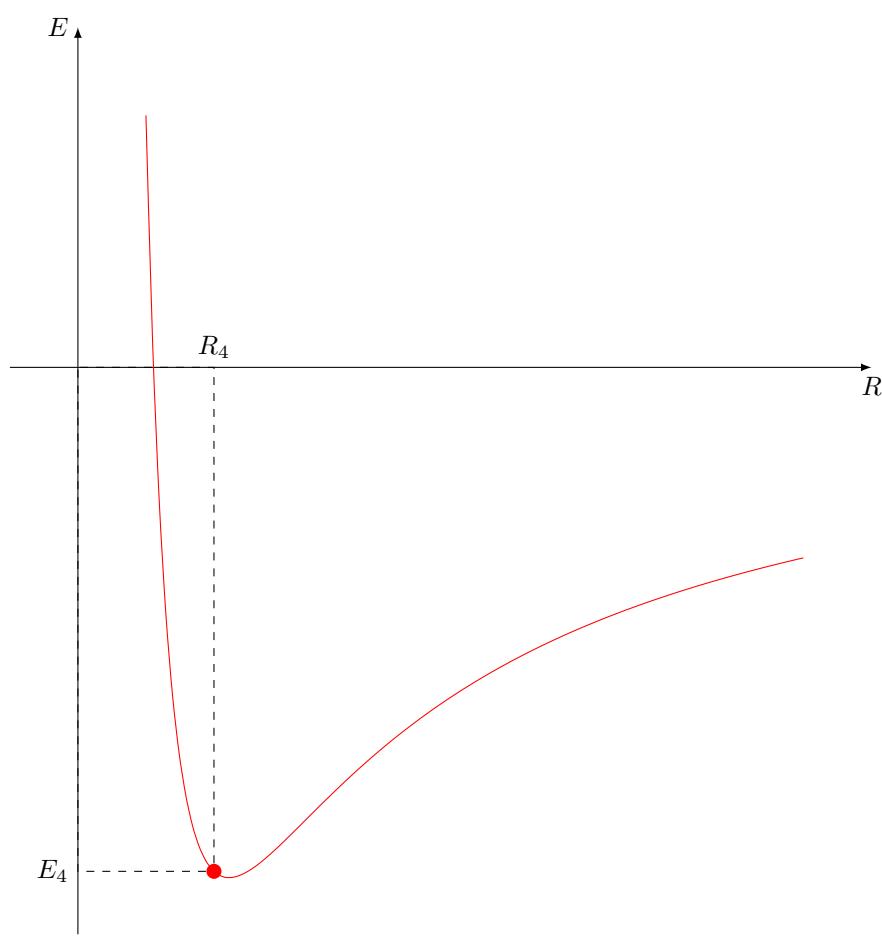
## Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$



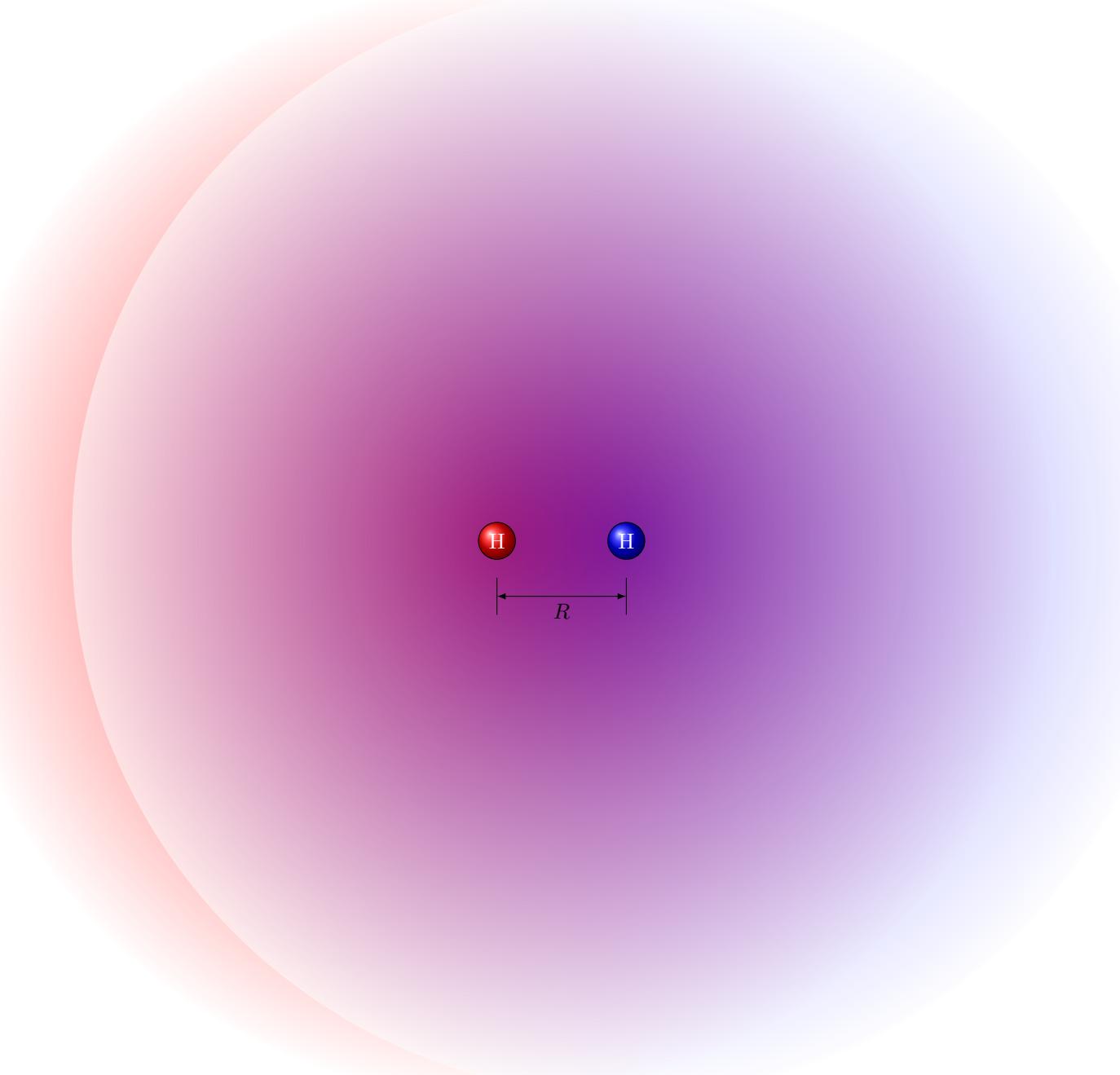
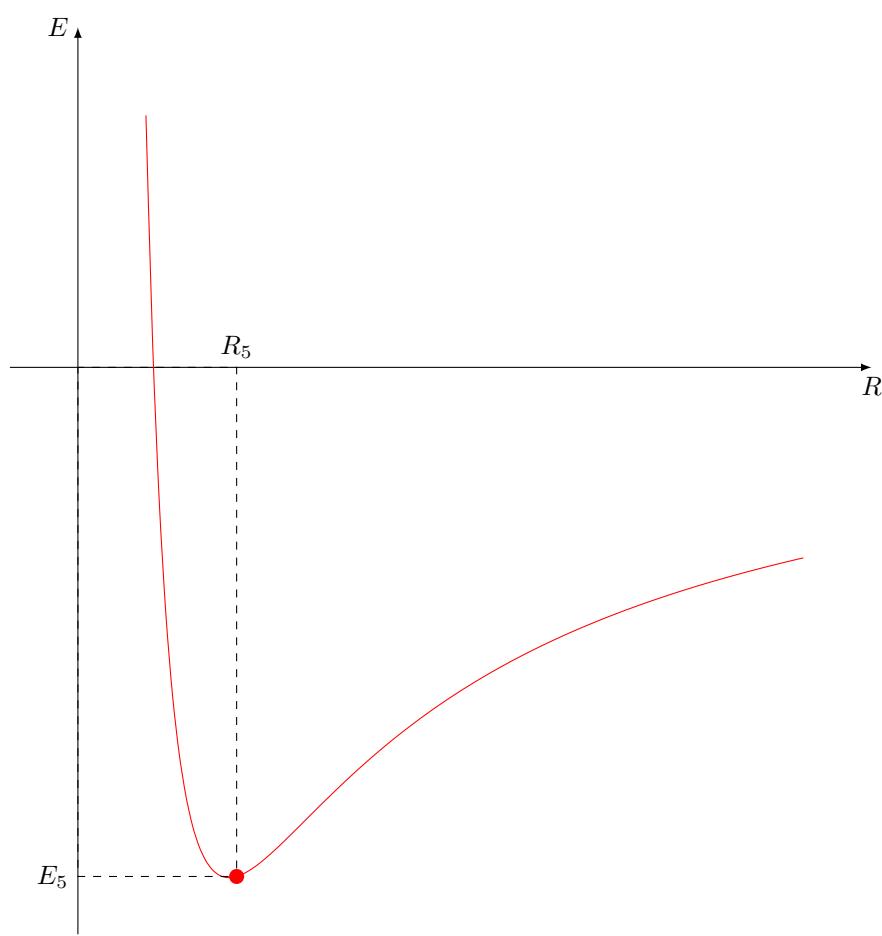
## Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$



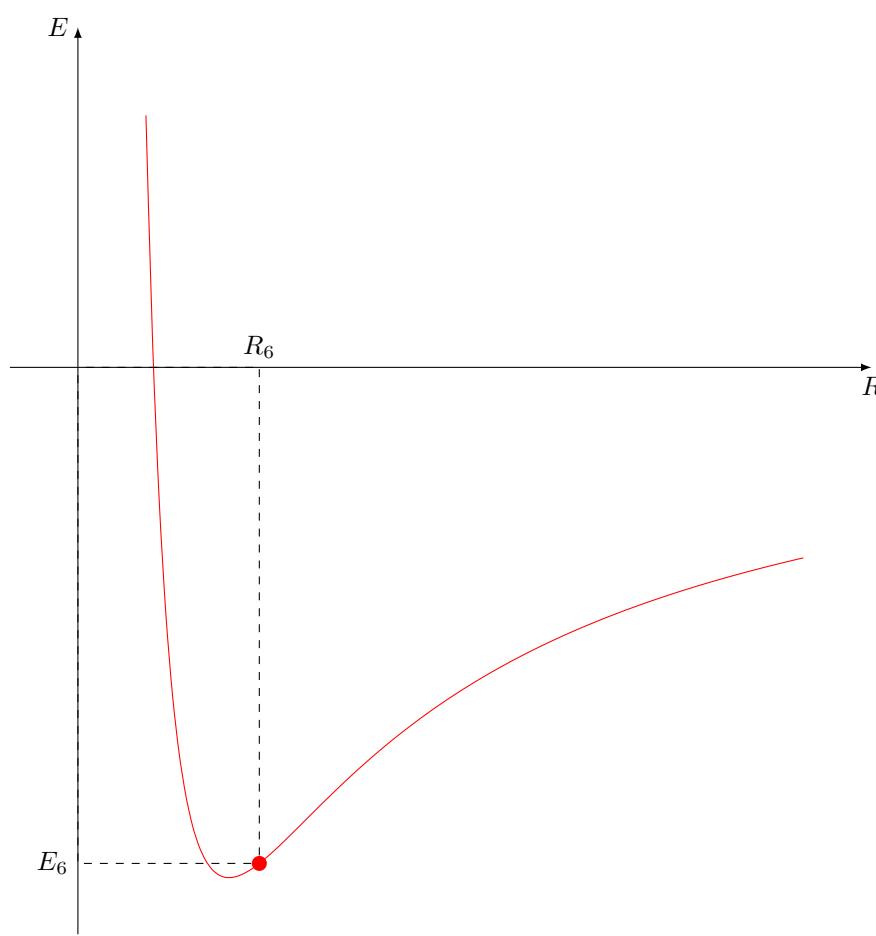
## Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$



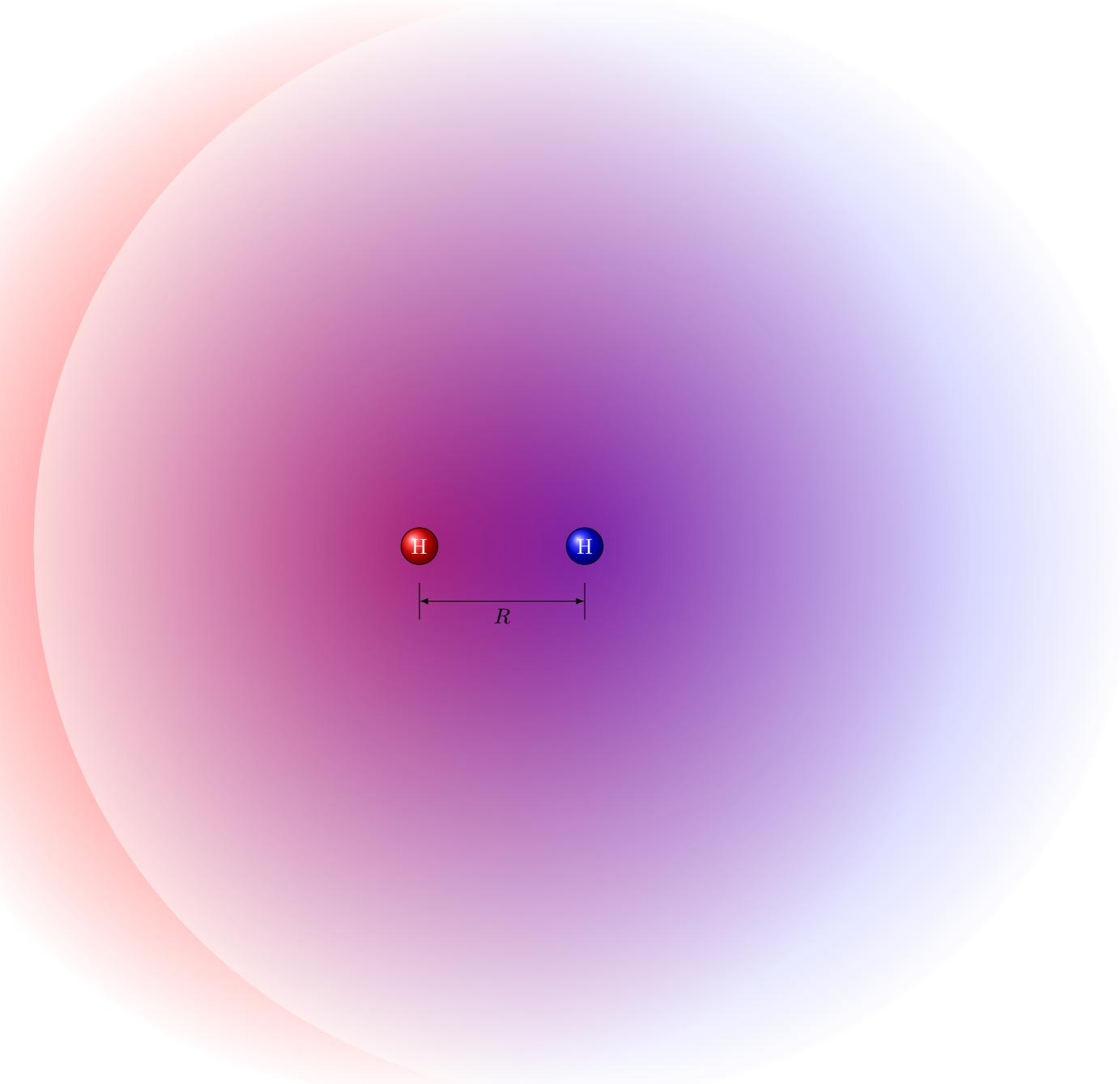
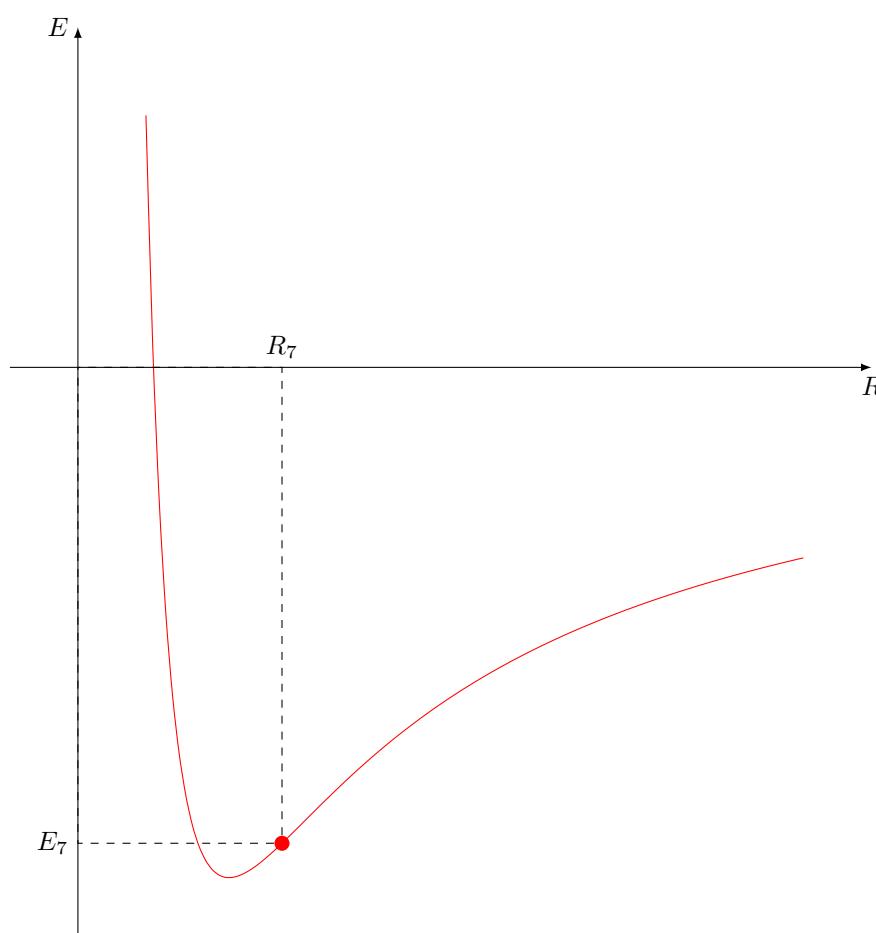
## Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$



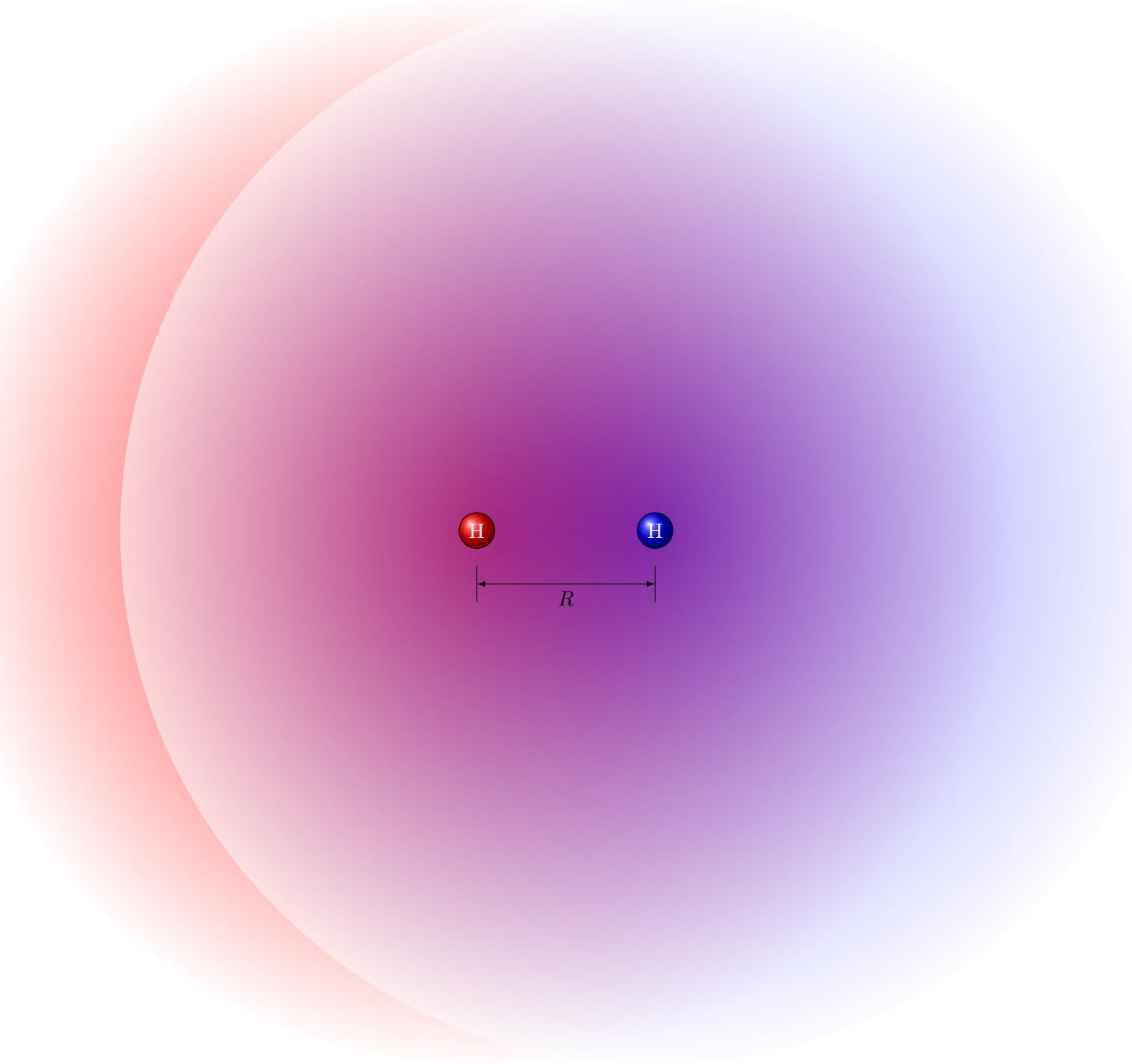
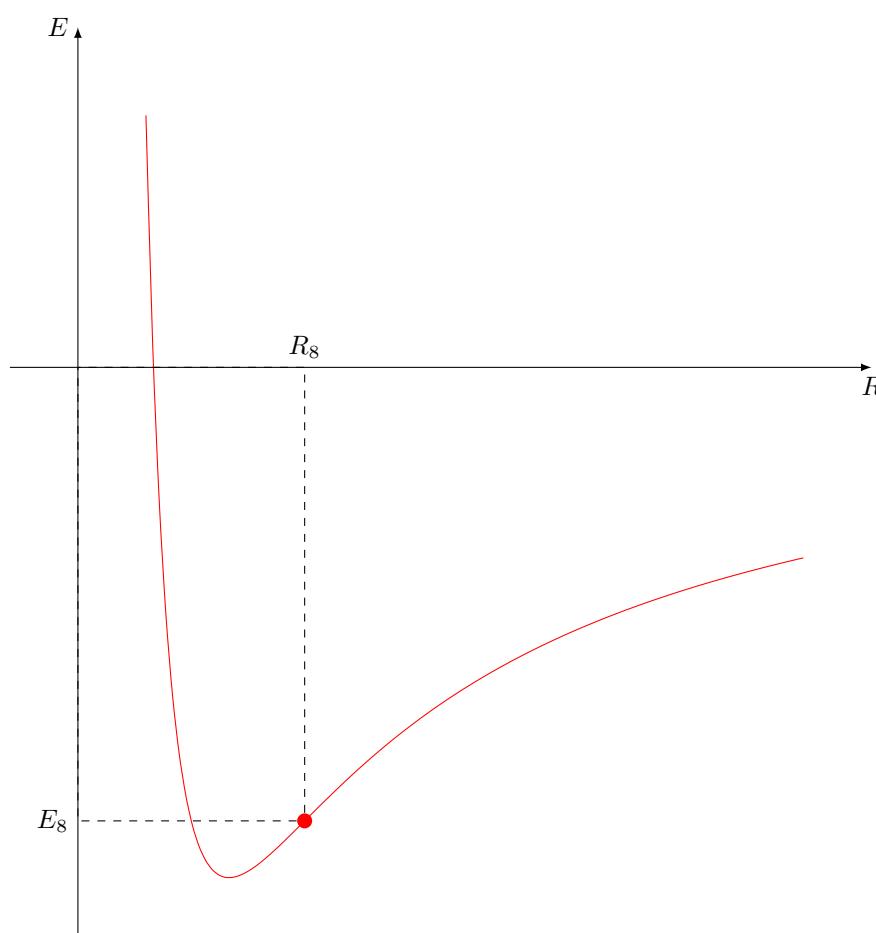
## Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$



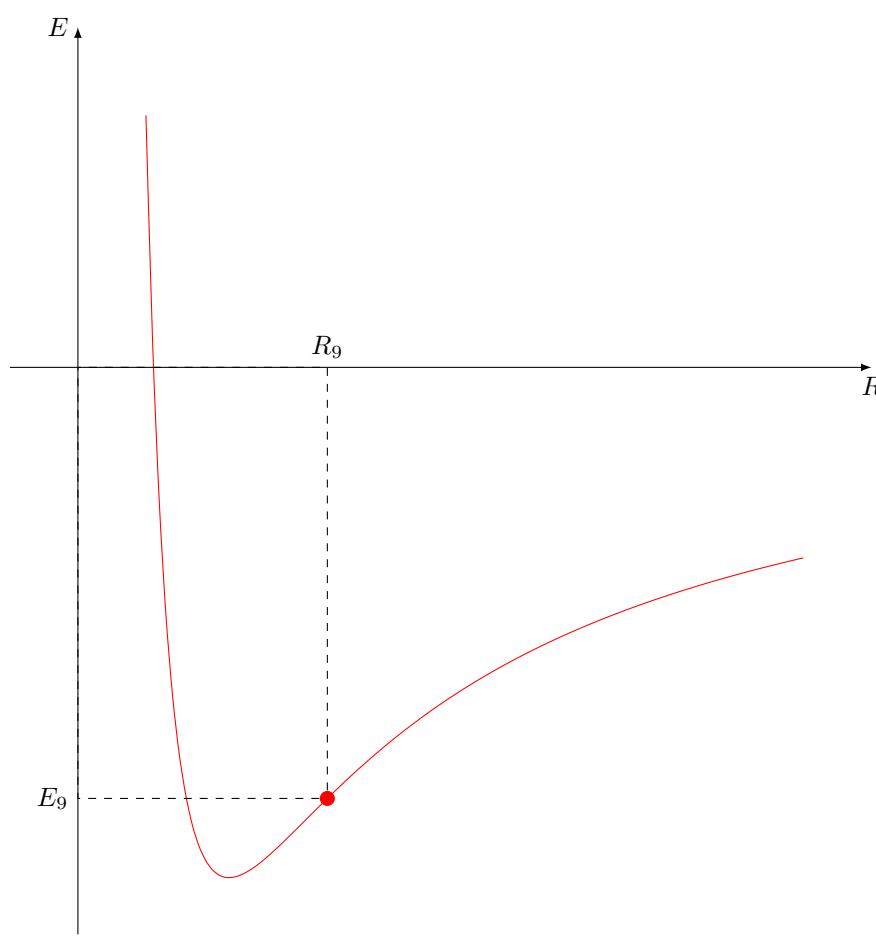
## Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$



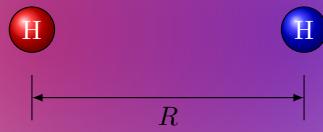
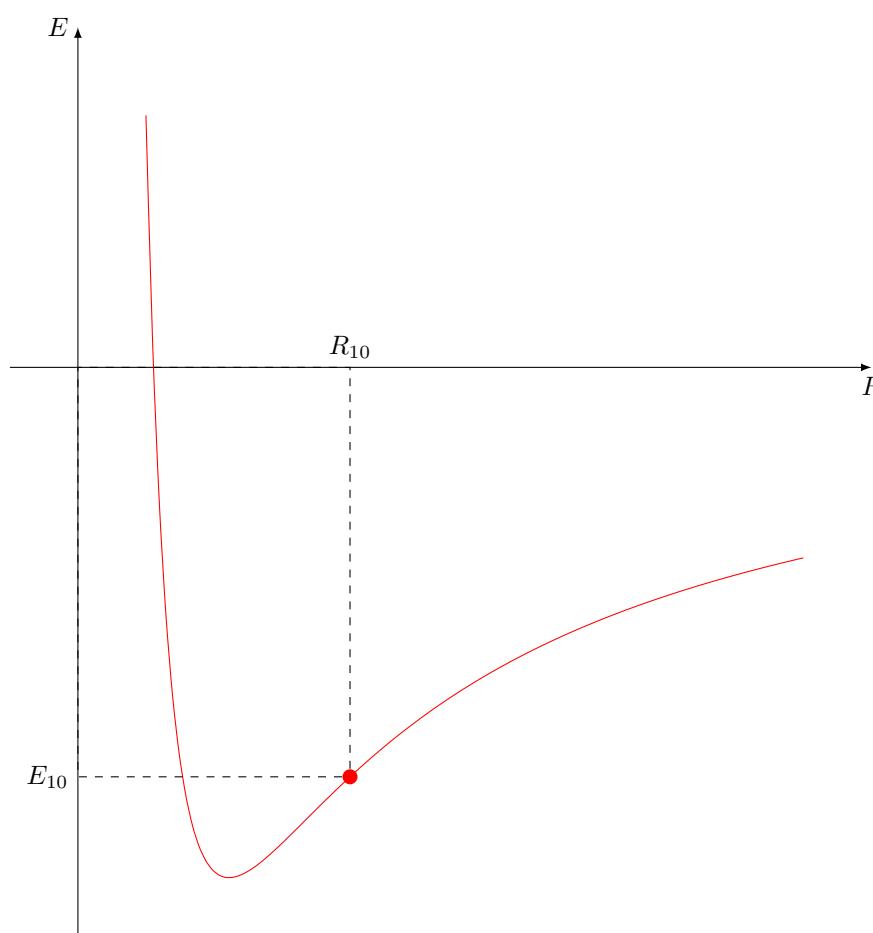
## Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$



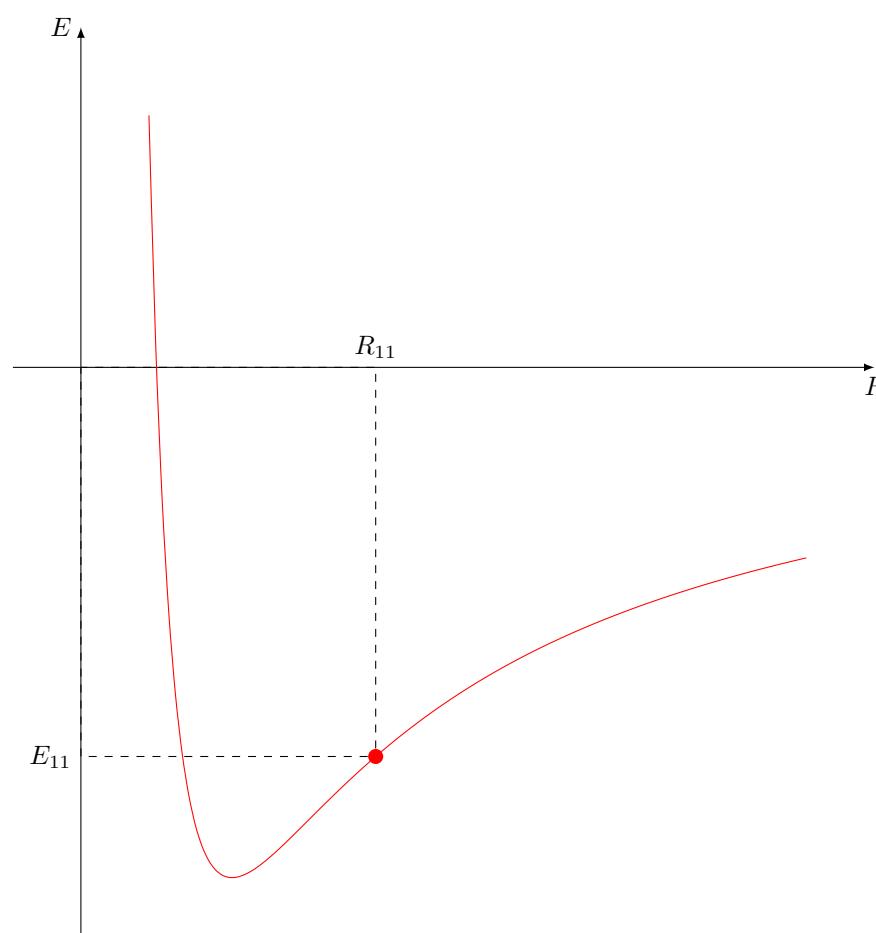
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
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$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$



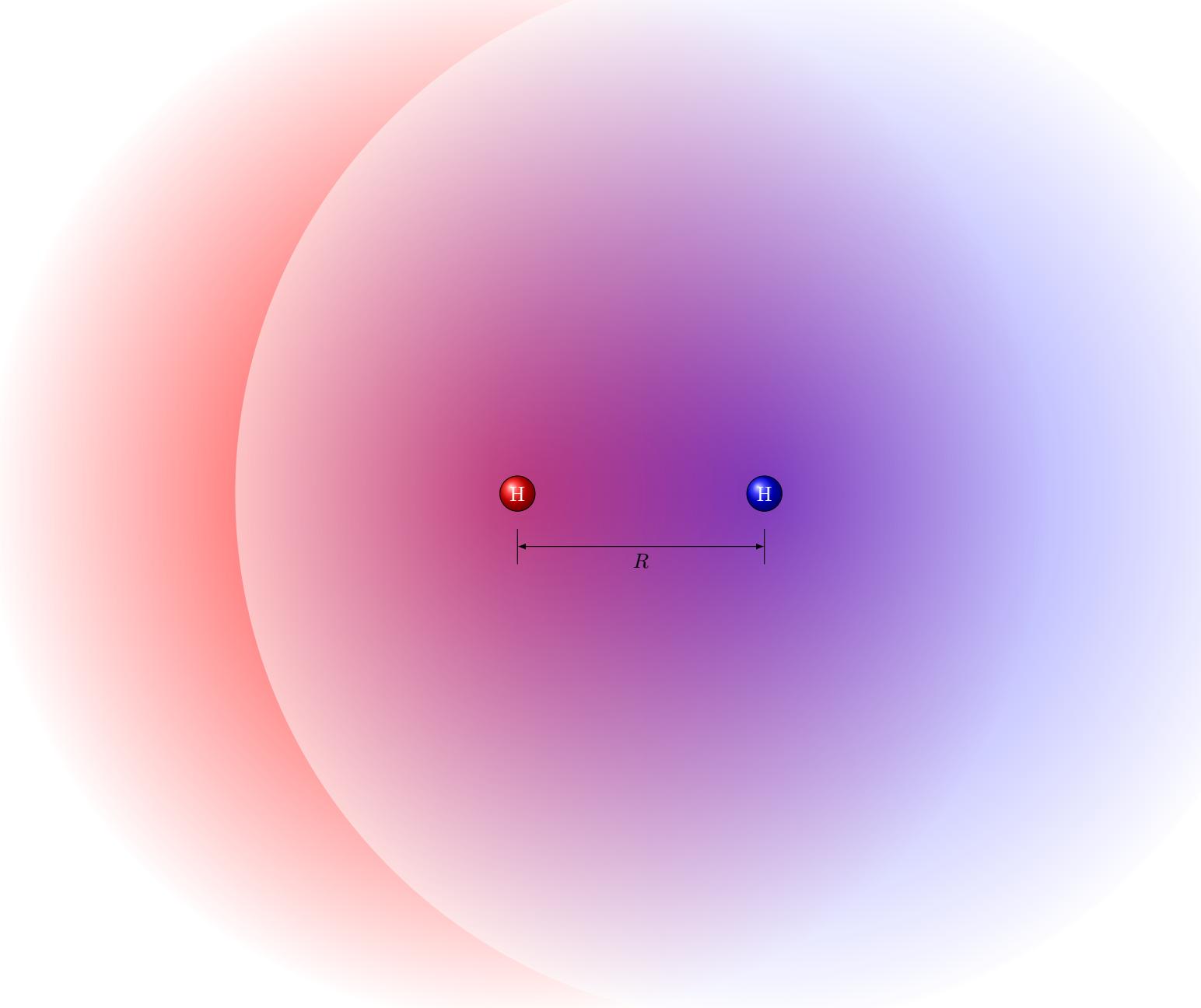
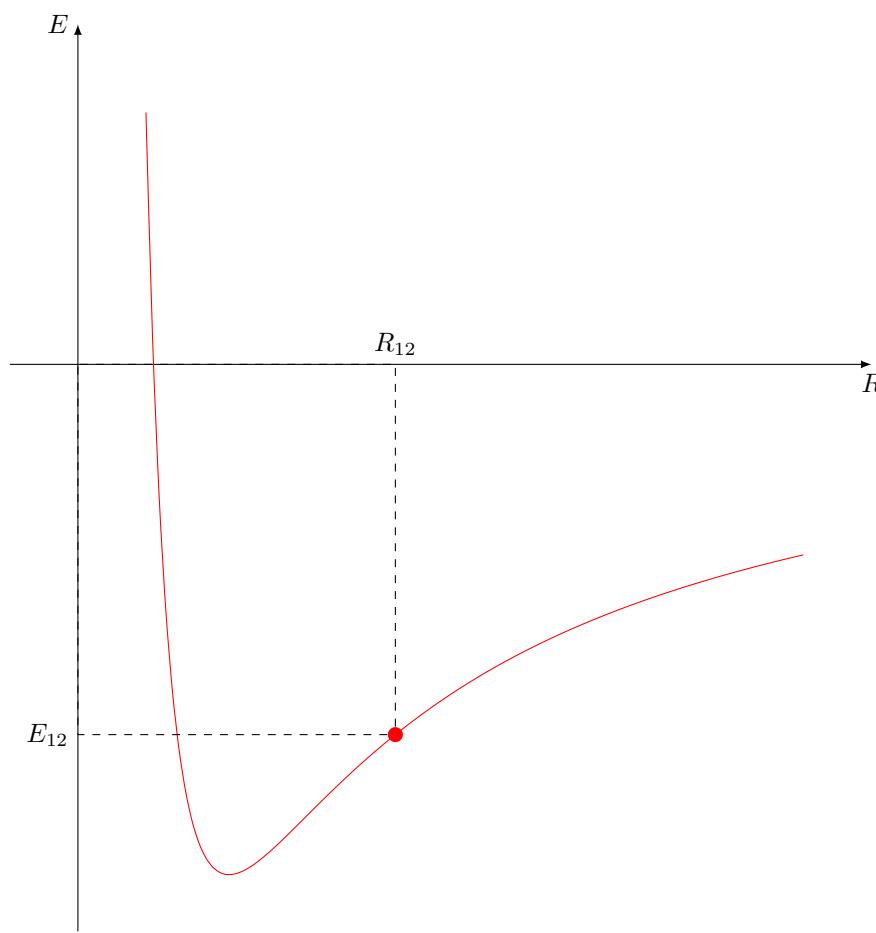
## Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$



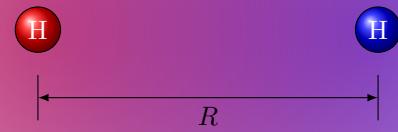
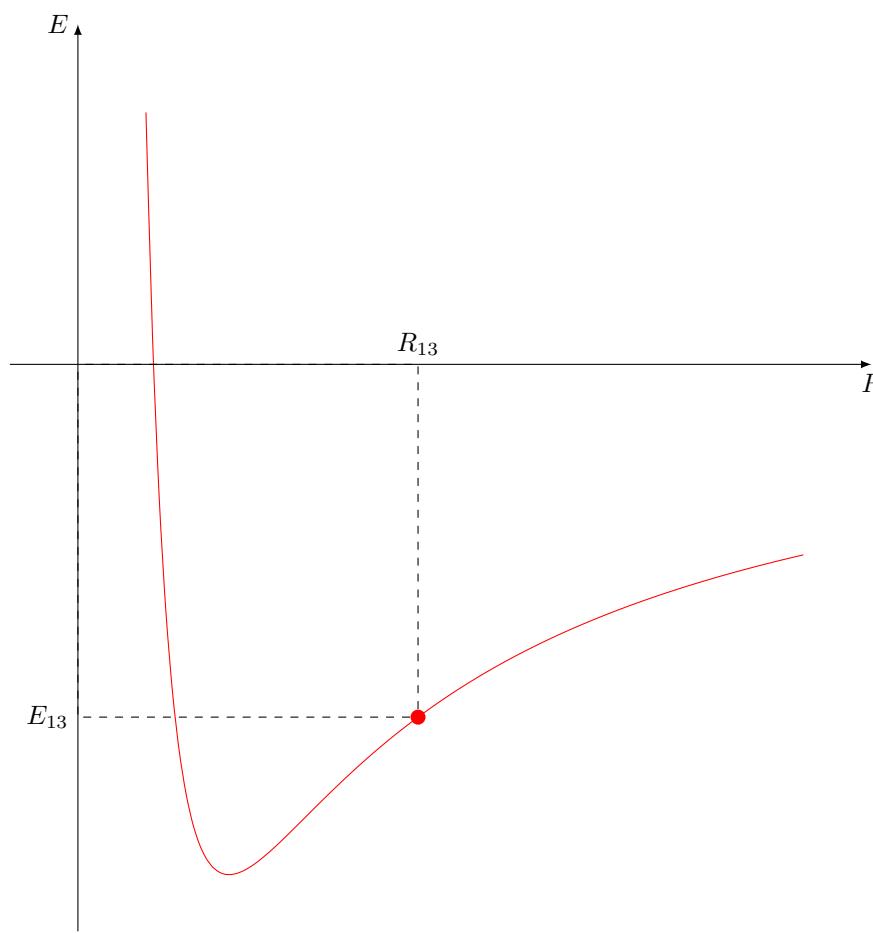
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
$R_{12}$	$E_{12}$



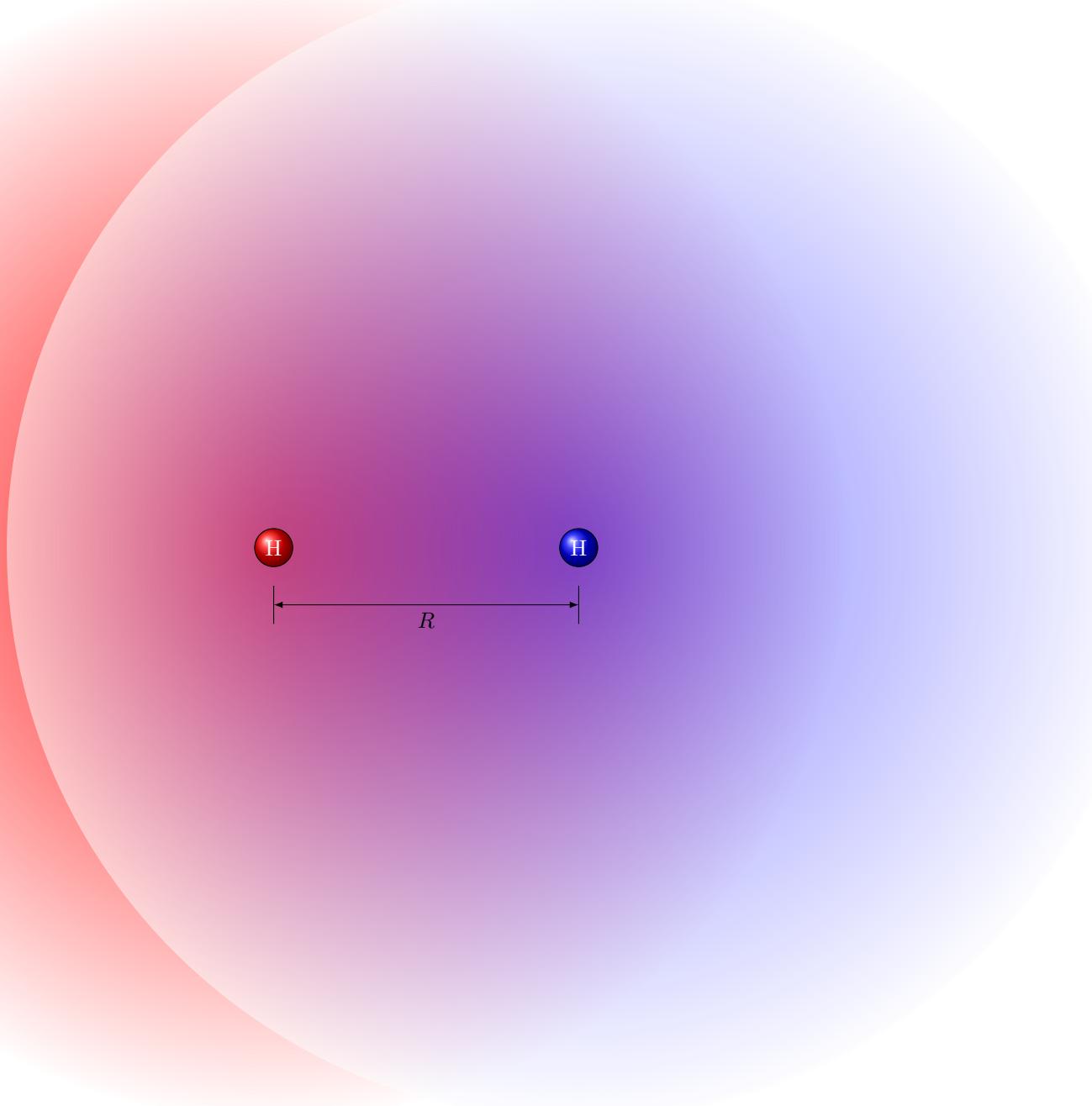
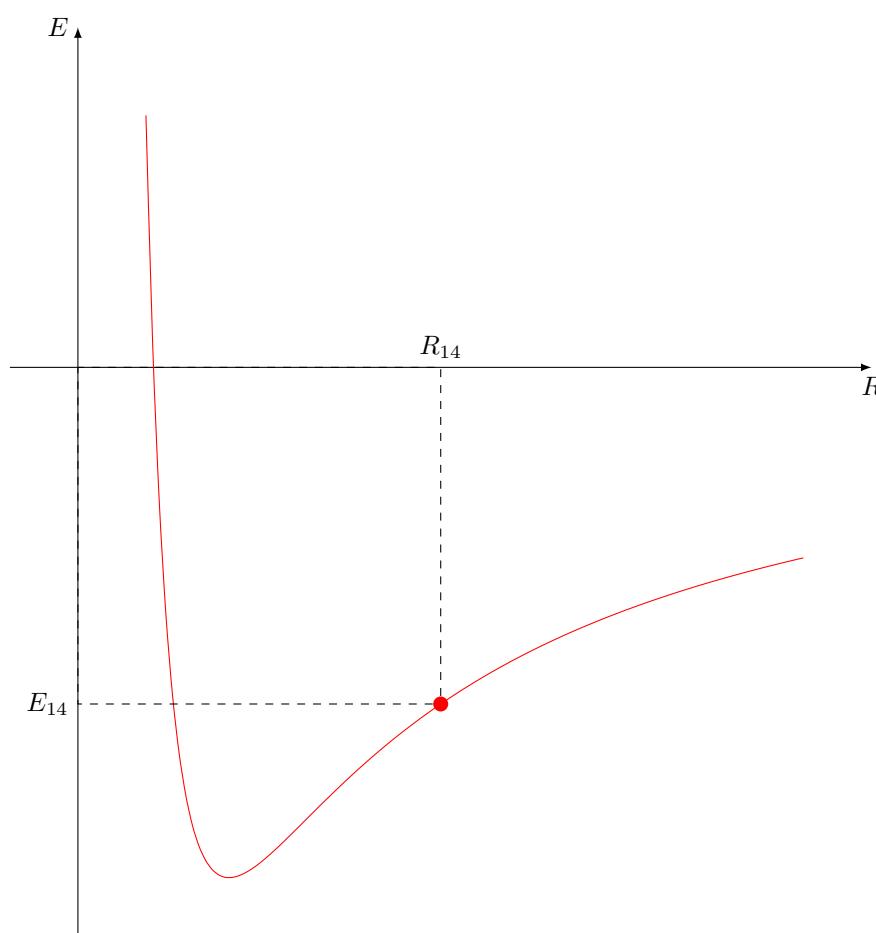
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
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$R_{11}$	$E_{11}$
$R_{12}$	$E_{12}$
$R_{13}$	$E_{13}$



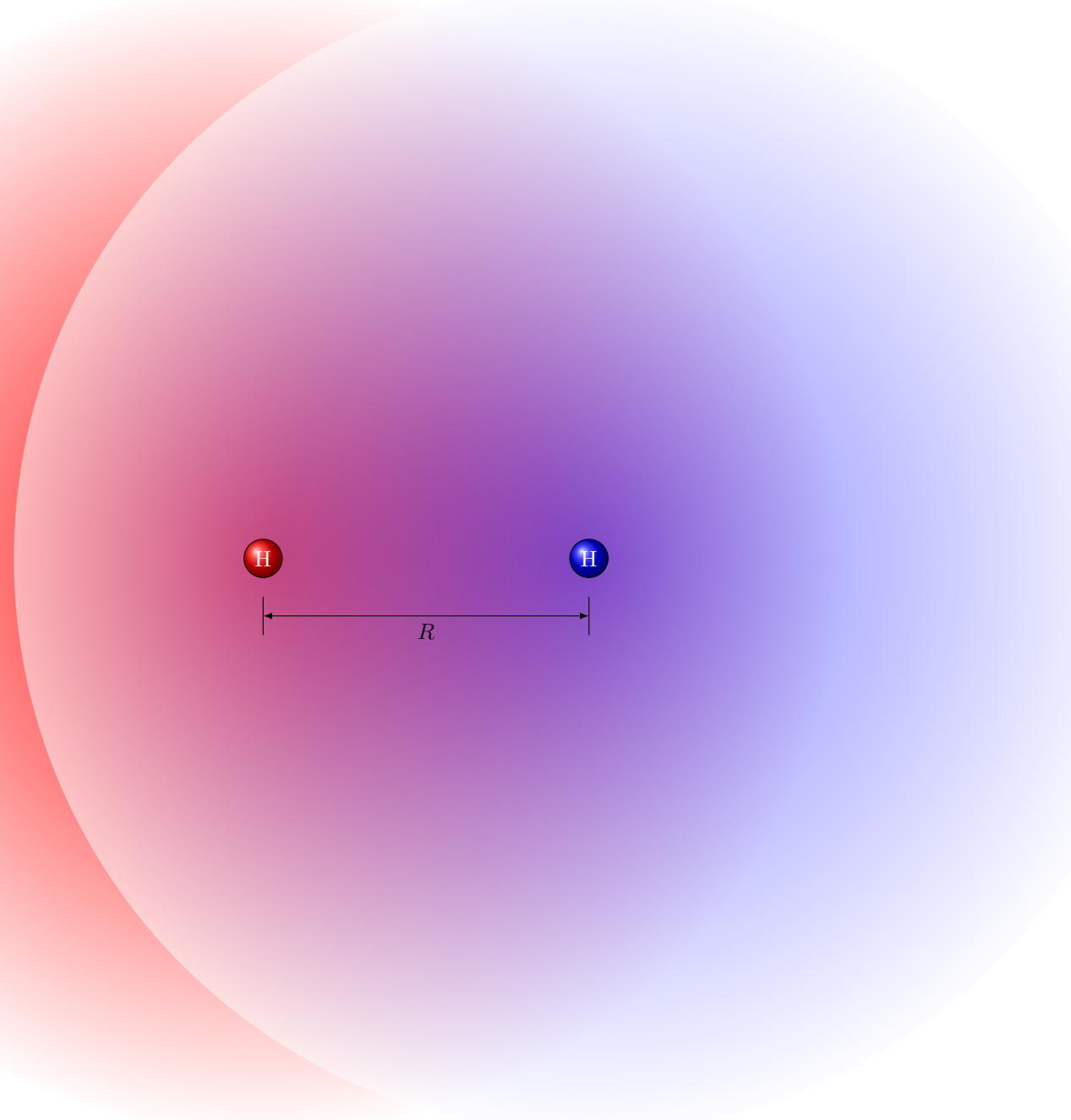
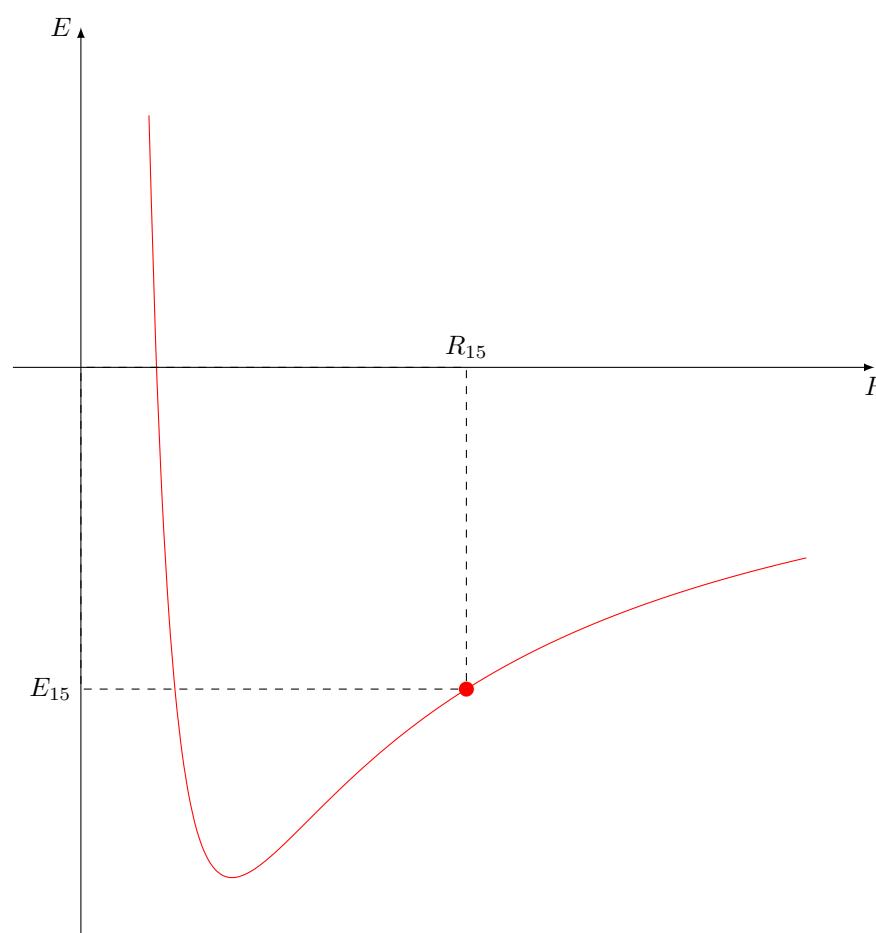
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
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$R_{13}$	$E_{13}$
$R_{14}$	$E_{14}$



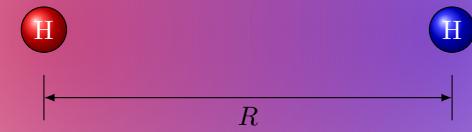
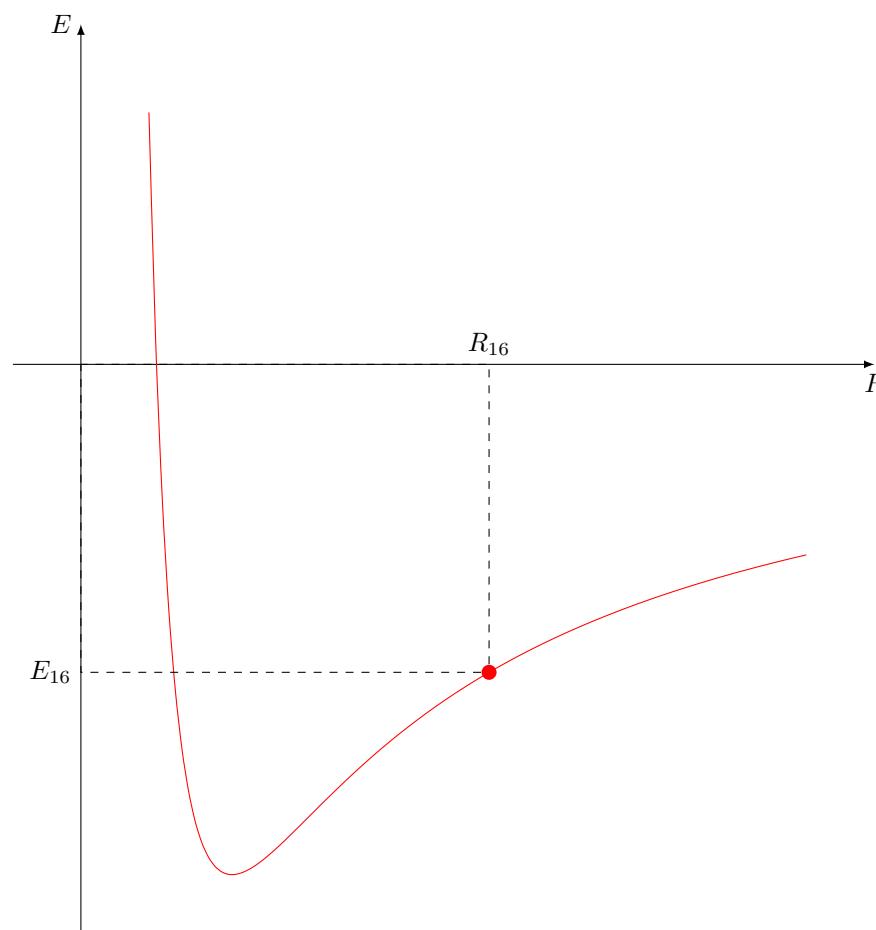
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
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$R_{14}$	$E_{14}$
$R_{15}$	$E_{15}$



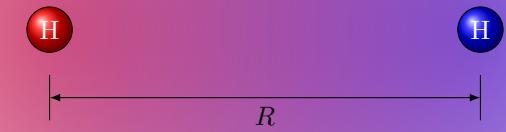
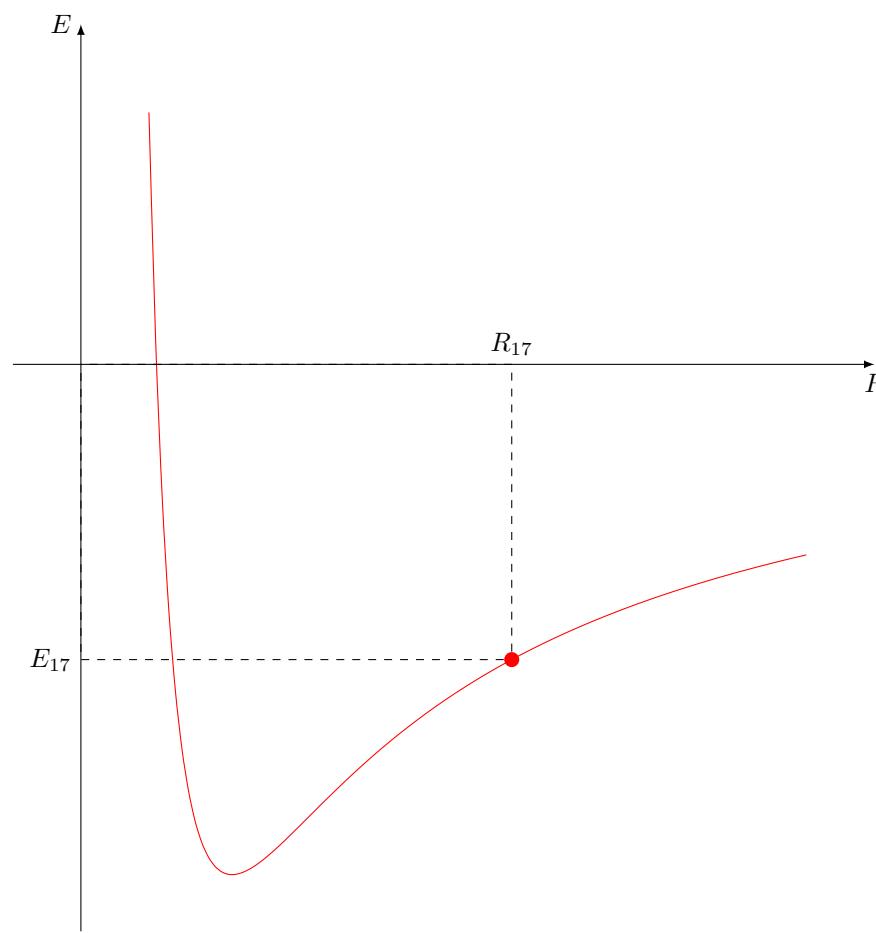
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
$R_{12}$	$E_{12}$
$R_{13}$	$E_{13}$
$R_{14}$	$E_{14}$
$R_{15}$	$E_{15}$
$R_{16}$	$E_{16}$



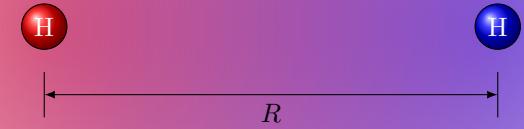
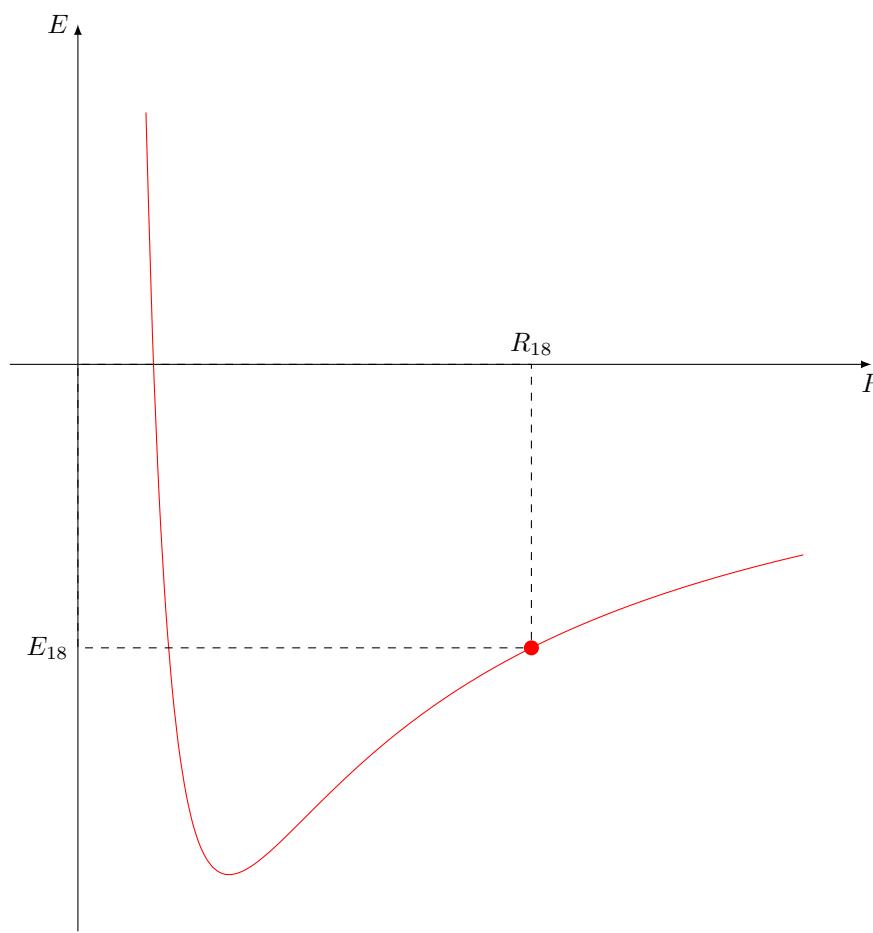
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
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$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
$R_{12}$	$E_{12}$
$R_{13}$	$E_{13}$
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$R_{15}$	$E_{15}$
$R_{16}$	$E_{16}$
$R_{17}$	$E_{17}$



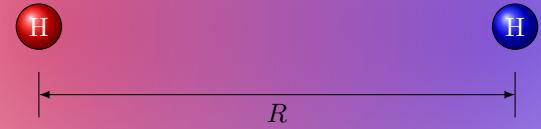
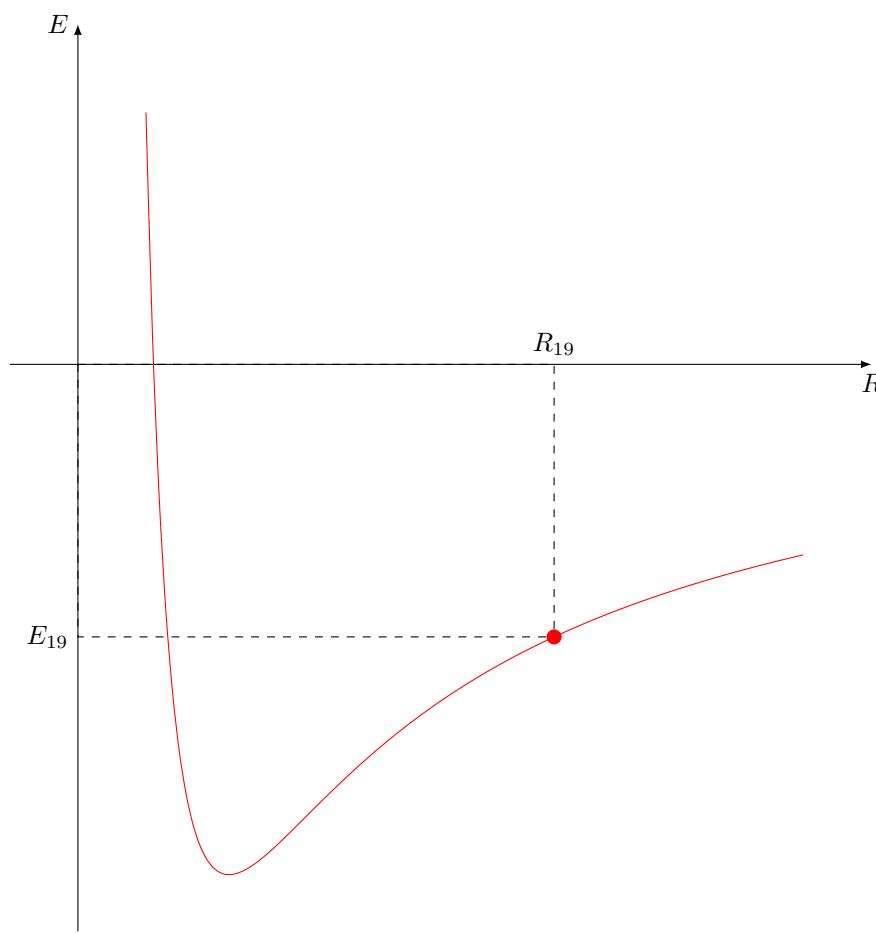
# Optimization chemical bond length

$R$	$E$
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$R_2$	$E_2$
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$R_5$	$E_5$
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$R_{14}$	$E_{14}$
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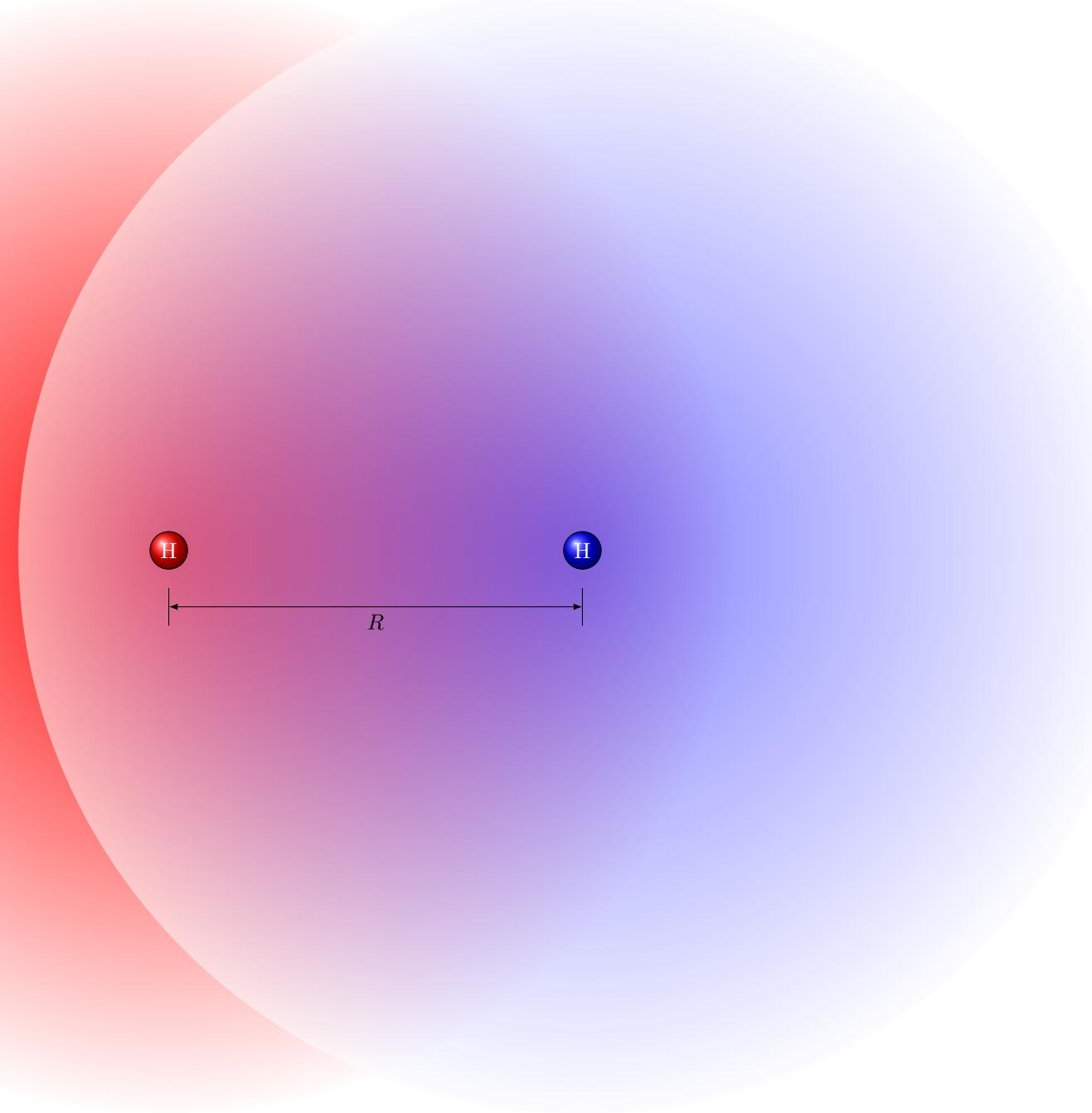
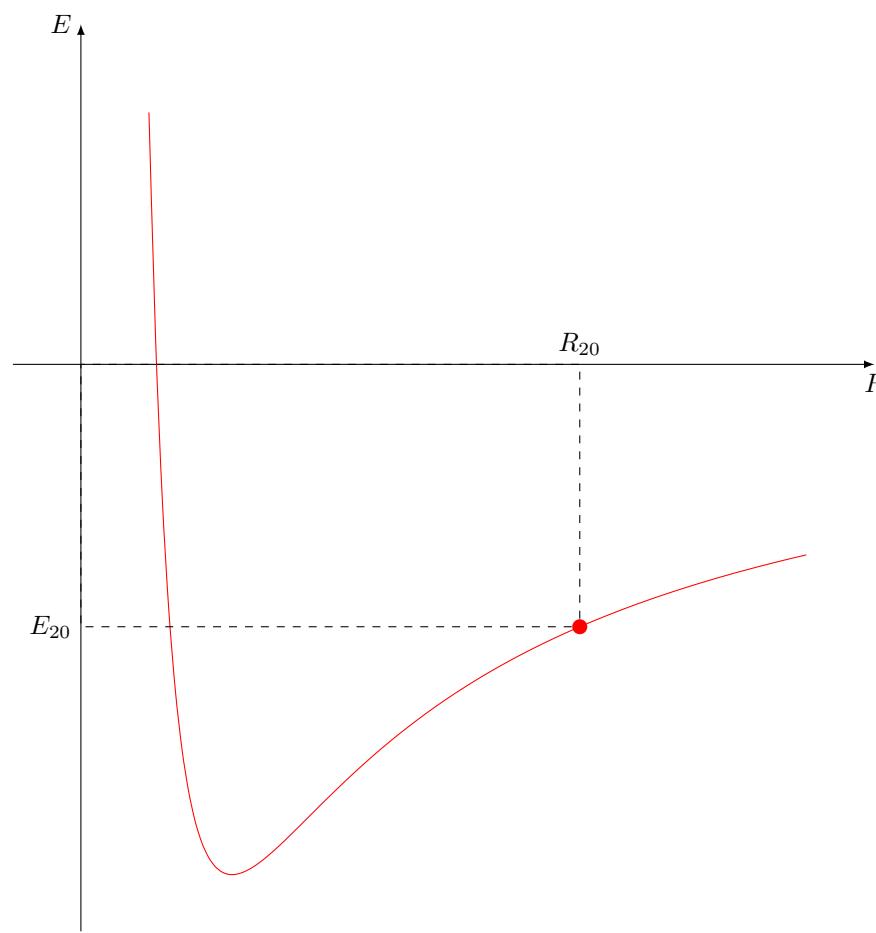
# Optimization chemical bond length

$R$	$E$
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$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
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$R_{14}$	$E_{14}$
$R_{15}$	$E_{15}$
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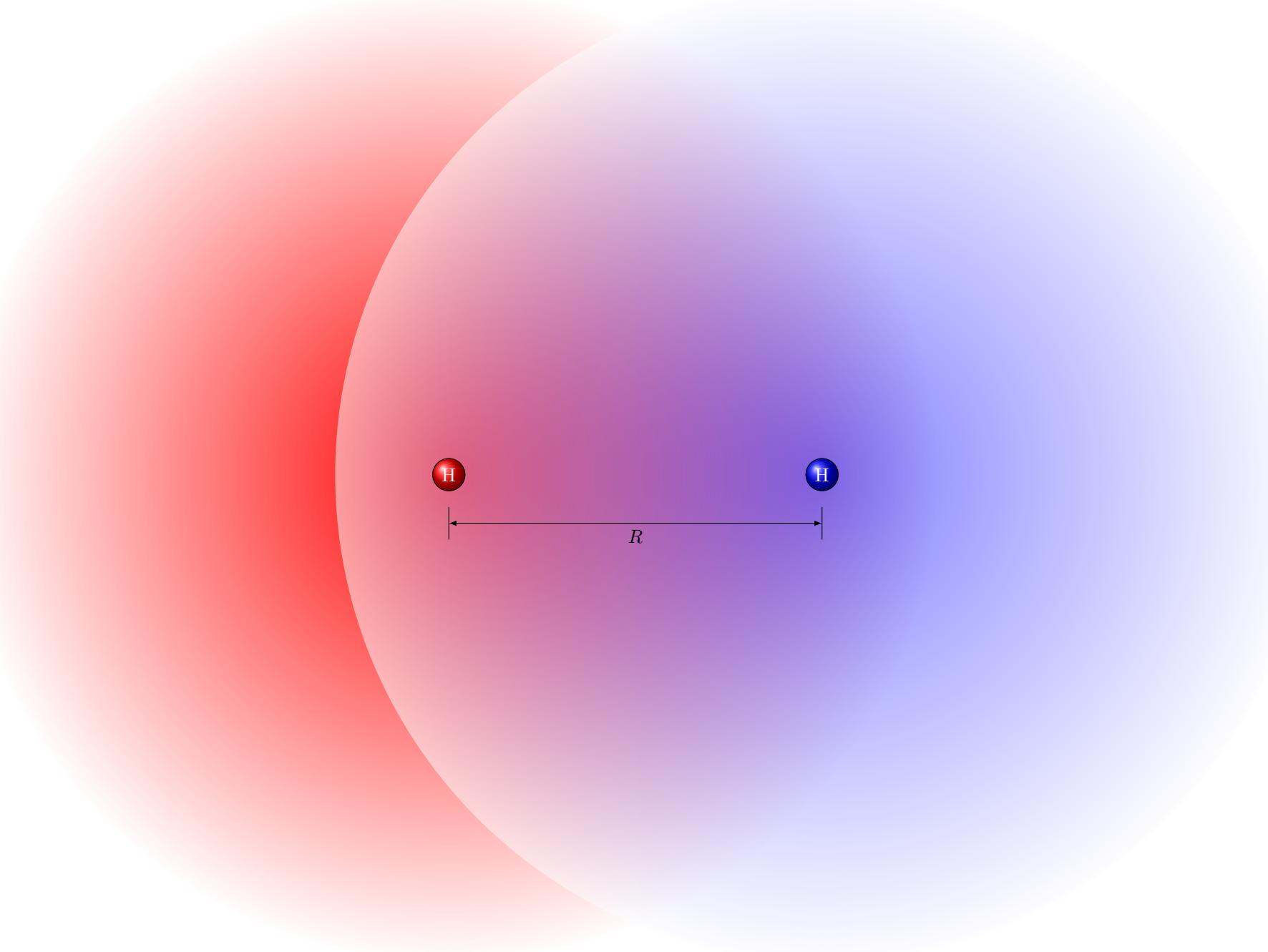
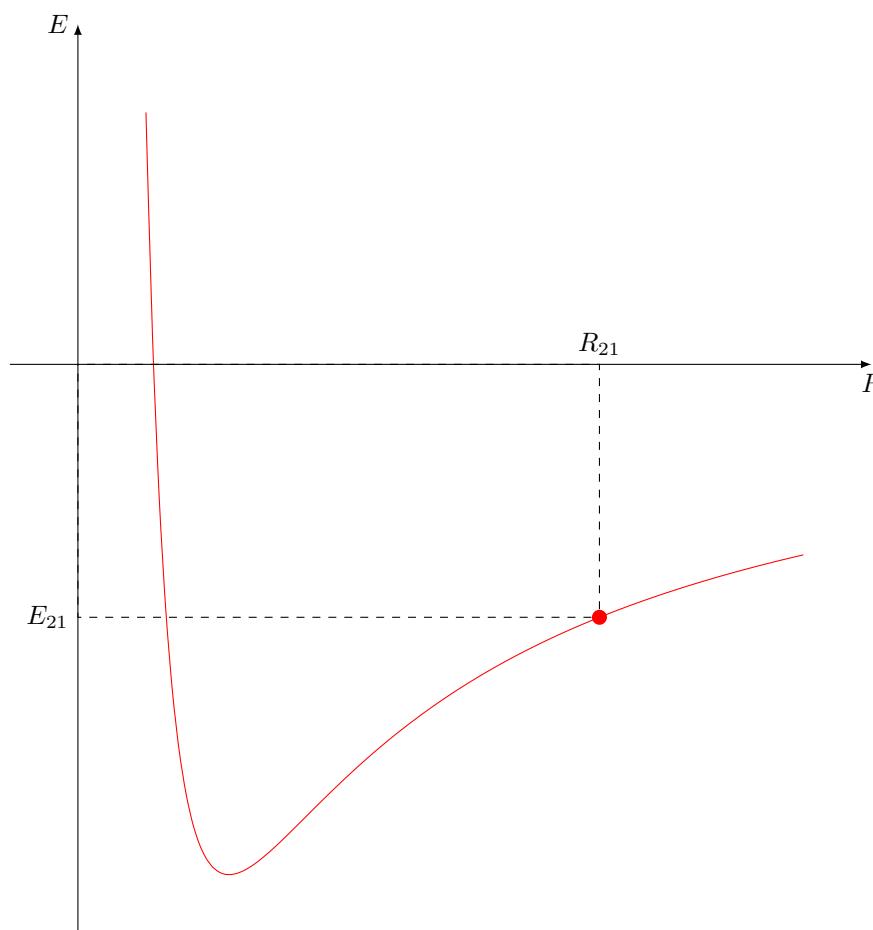
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
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$R_5$	$E_5$
$R_6$	$E_6$
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$R_8$	$E_8$
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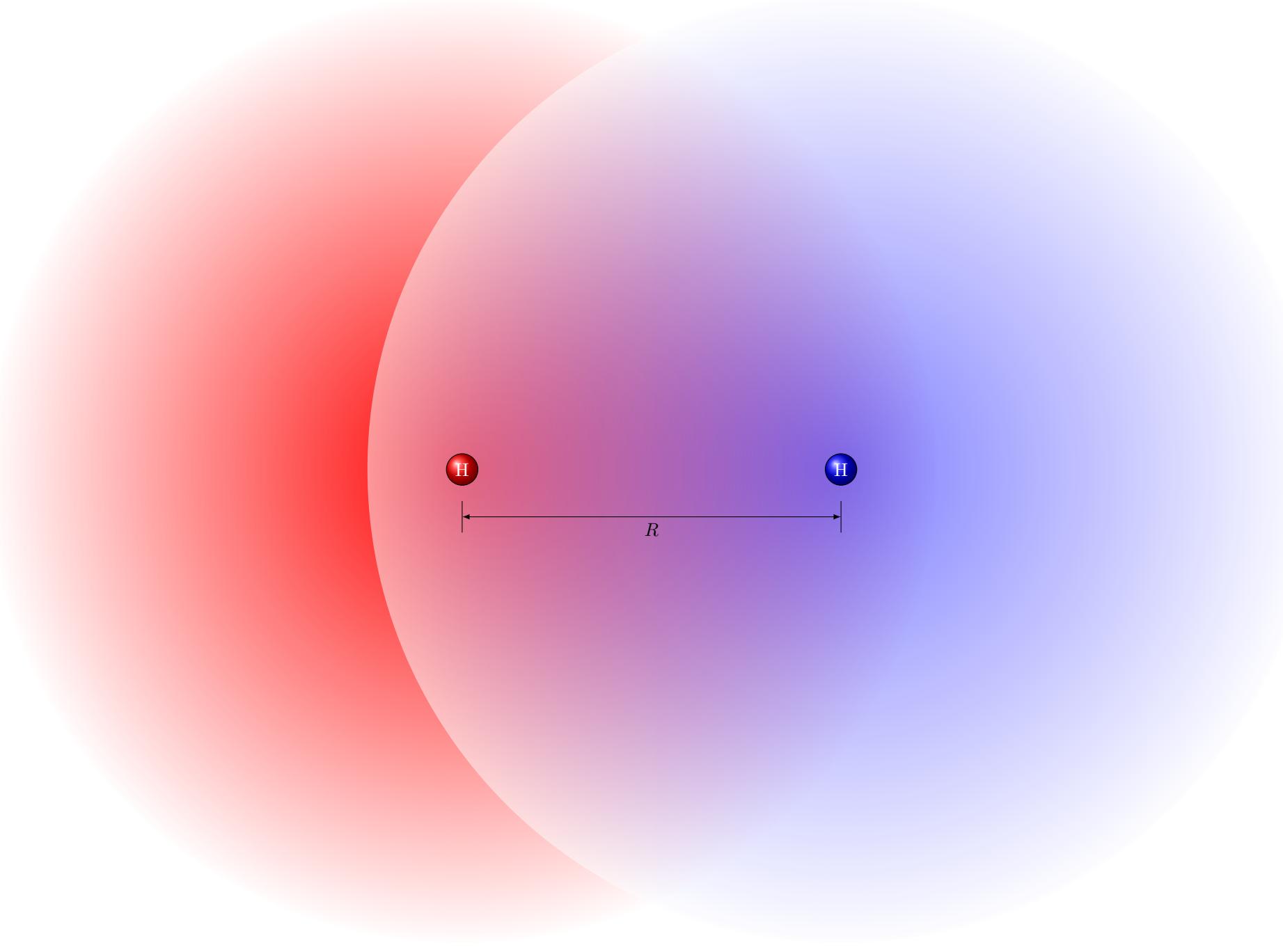
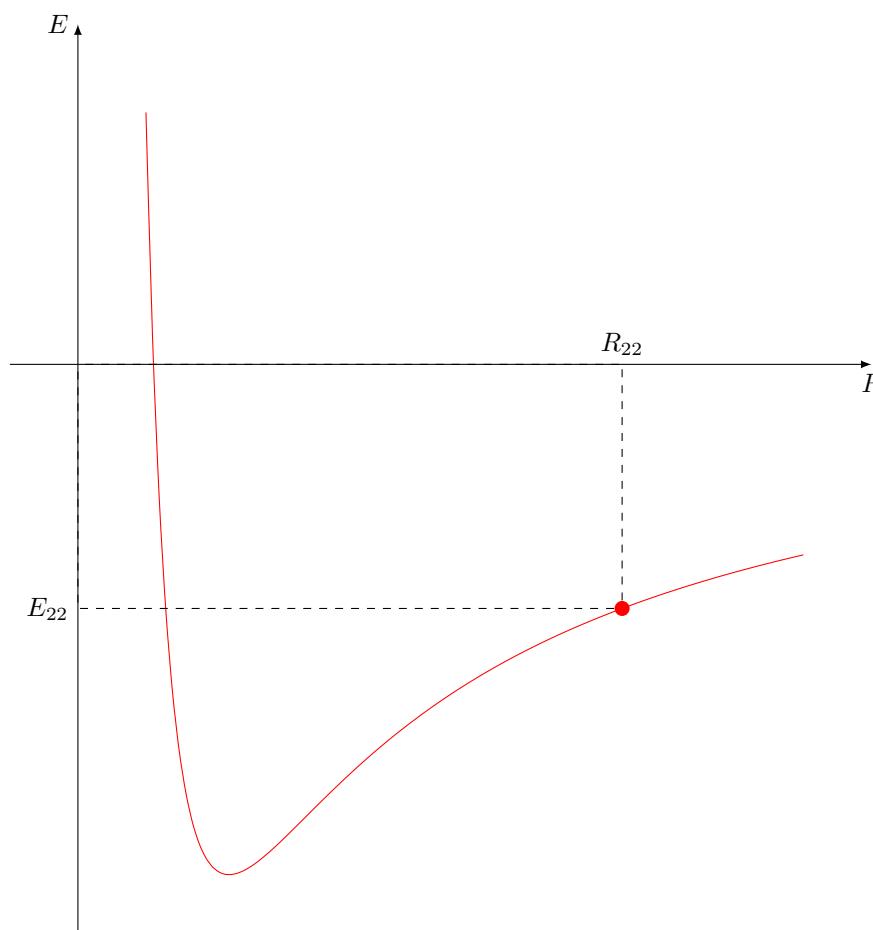
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
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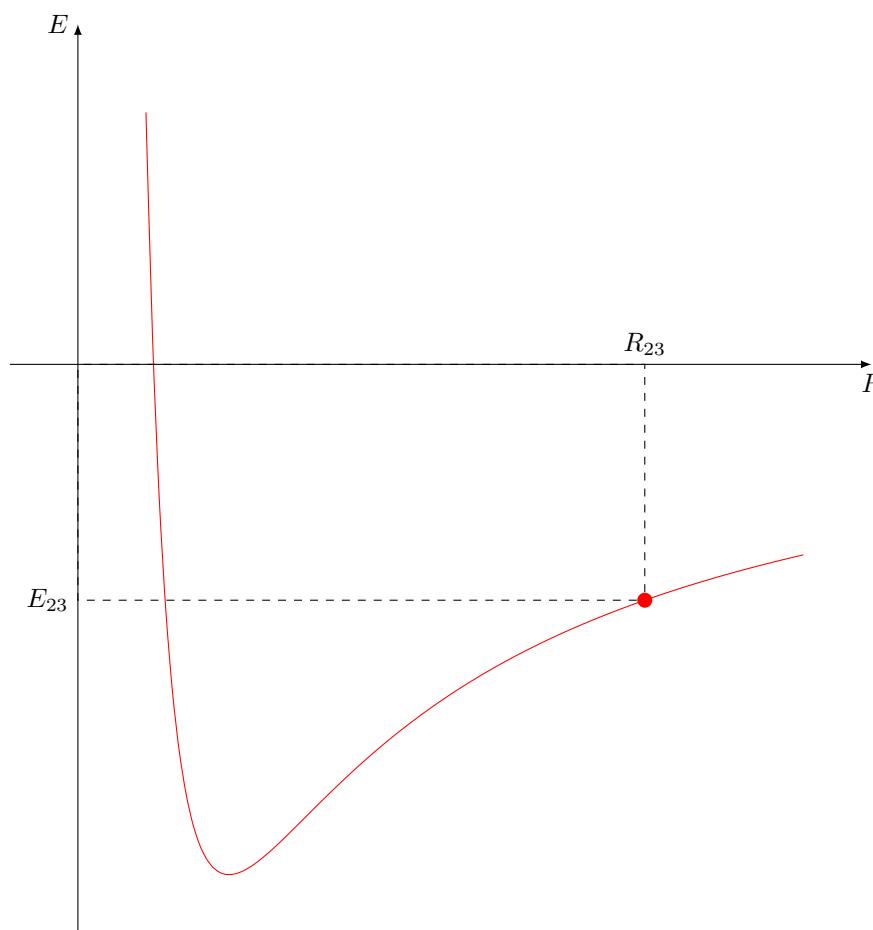
# Optimization chemical bond length

$R$	$E$
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$R_2$	$E_2$
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$R_5$	$E_5$
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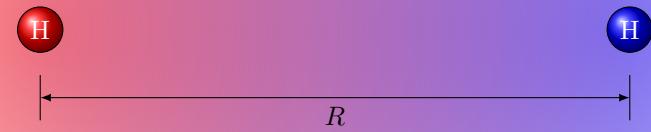
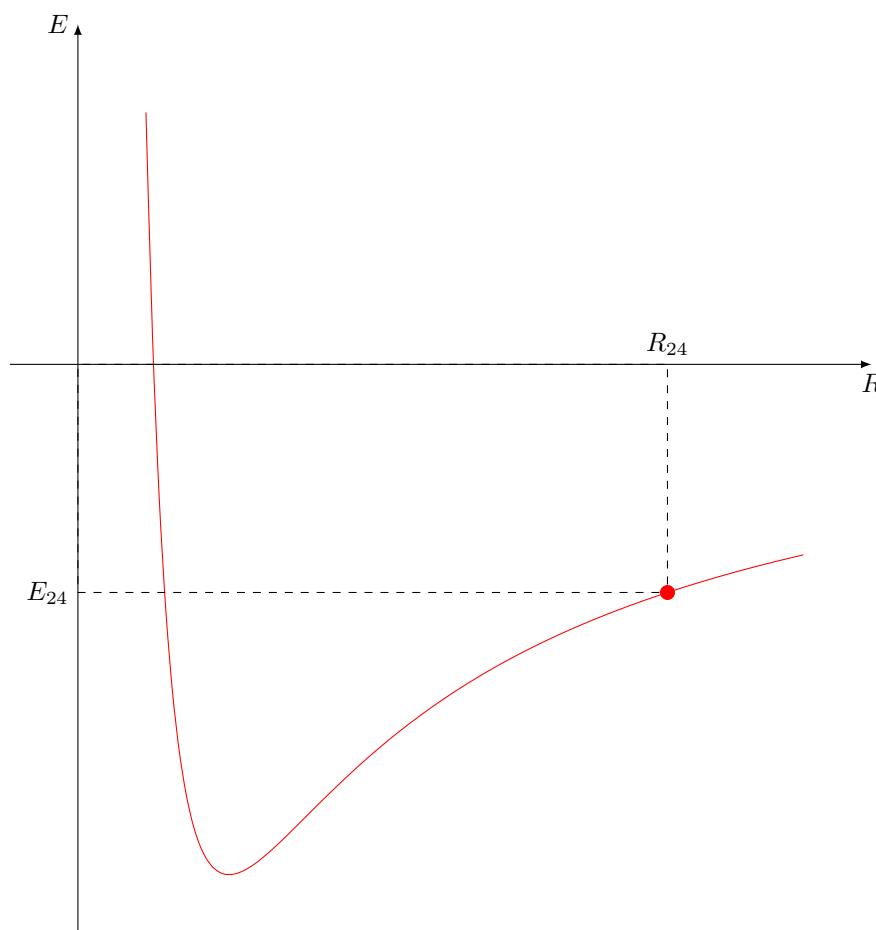
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
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$R_{14}$	$E_{14}$
$R_{15}$	$E_{15}$
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$R_{17}$	$E_{17}$
$R_{18}$	$E_{18}$
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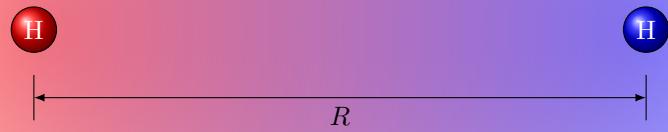
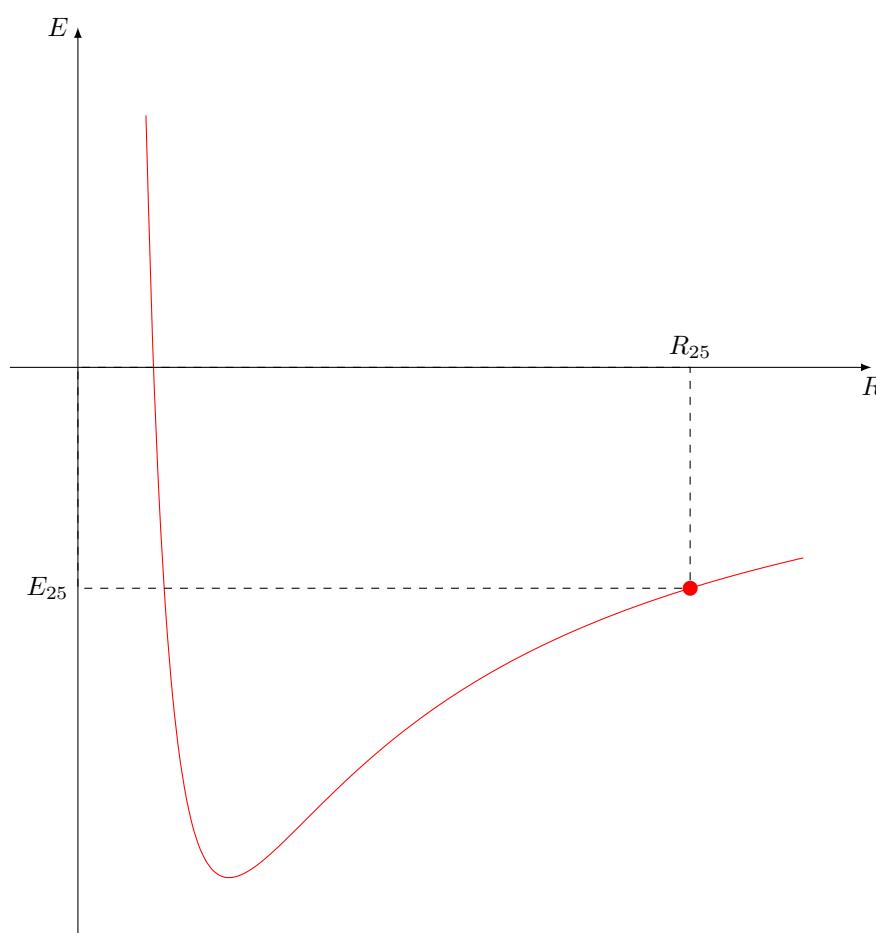
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
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$R_{16}$	$E_{16}$
$R_{17}$	$E_{17}$
$R_{18}$	$E_{18}$
$R_{19}$	$E_{19}$
$R_{20}$	$E_{20}$
$R_{21}$	$E_{21}$
$R_{22}$	$E_{22}$
$R_{23}$	$E_{23}$
$R_{24}$	$E_{24}$



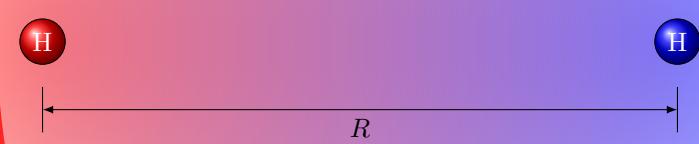
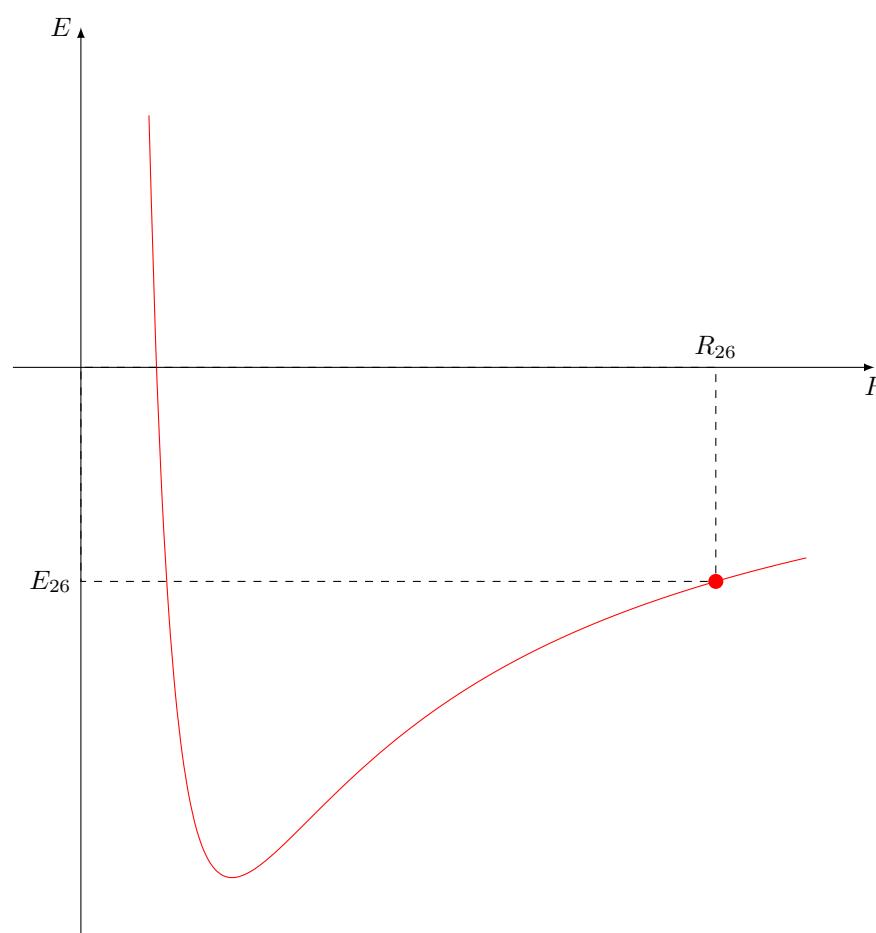
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
$R_{12}$	$E_{12}$
$R_{13}$	$E_{13}$
$R_{14}$	$E_{14}$
$R_{15}$	$E_{15}$
$R_{16}$	$E_{16}$
$R_{17}$	$E_{17}$
$R_{18}$	$E_{18}$
$R_{19}$	$E_{19}$
$R_{20}$	$E_{20}$
$R_{21}$	$E_{21}$
$R_{22}$	$E_{22}$
$R_{23}$	$E_{23}$
$R_{24}$	$E_{24}$
$R_{25}$	$E_{25}$



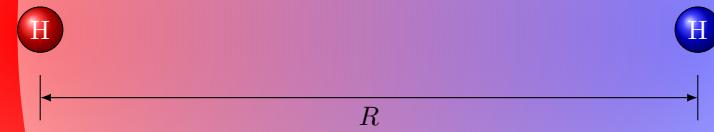
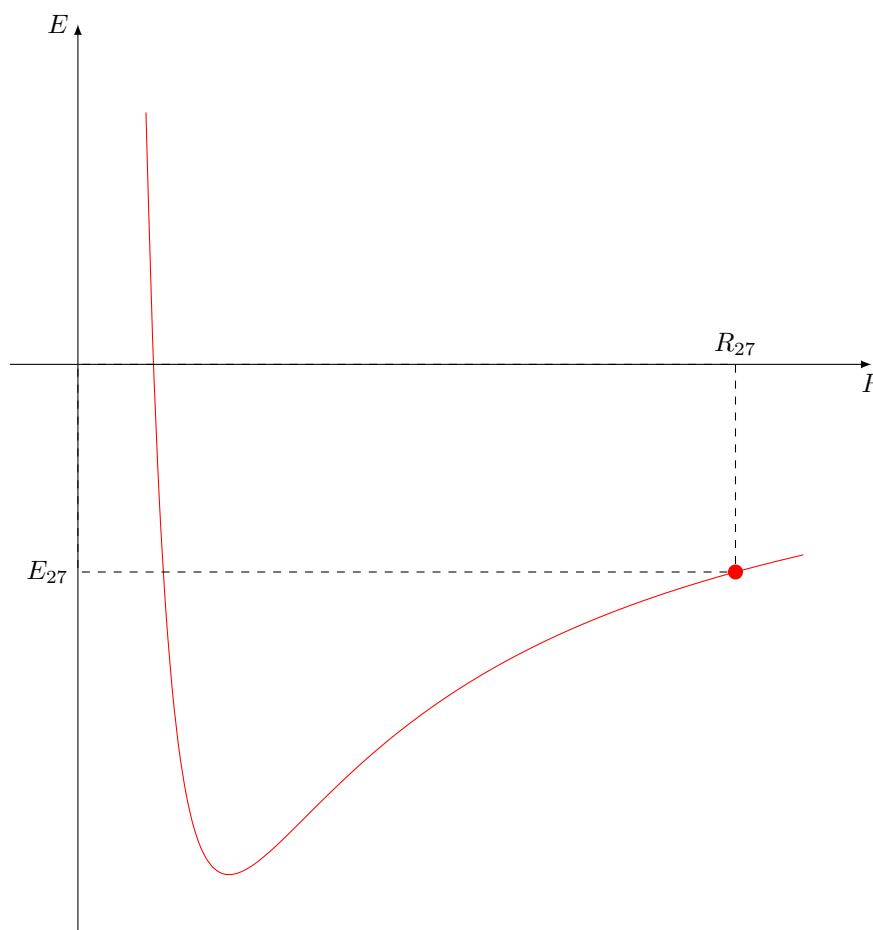
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
$R_{12}$	$E_{12}$
$R_{13}$	$E_{13}$
$R_{14}$	$E_{14}$
$R_{15}$	$E_{15}$
$R_{16}$	$E_{16}$
$R_{17}$	$E_{17}$
$R_{18}$	$E_{18}$
$R_{19}$	$E_{19}$
$R_{20}$	$E_{20}$
$R_{21}$	$E_{21}$
$R_{22}$	$E_{22}$
$R_{23}$	$E_{23}$
$R_{24}$	$E_{24}$
$R_{25}$	$E_{25}$
$R_{26}$	$E_{26}$



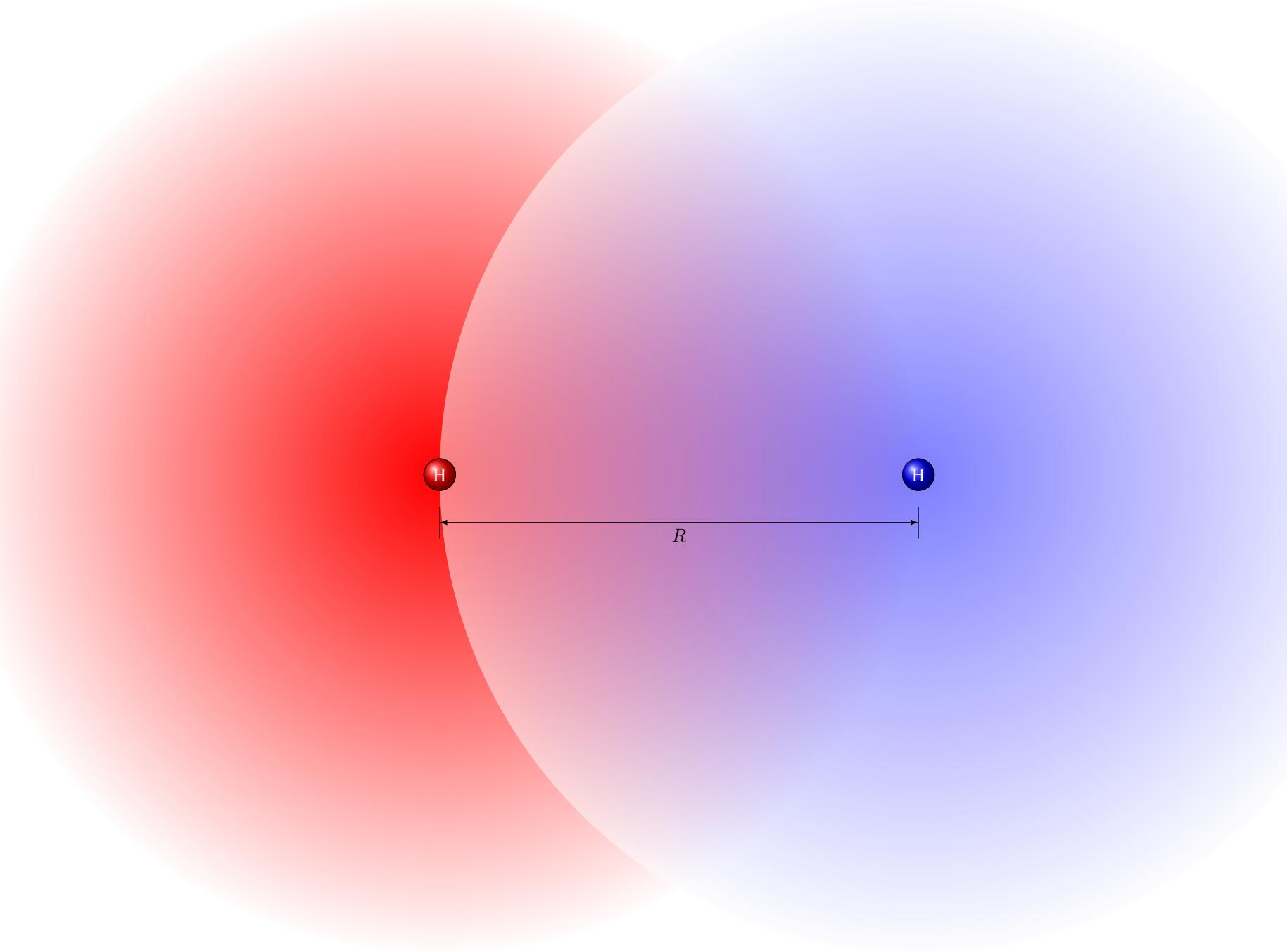
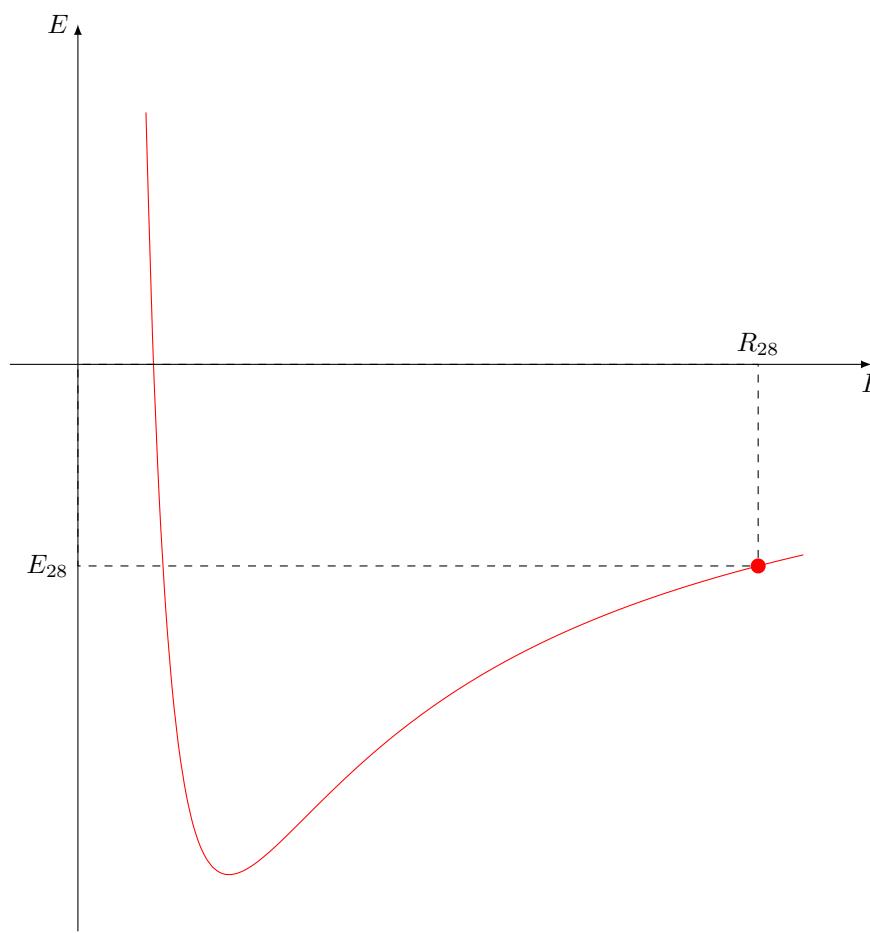
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
$R_{12}$	$E_{12}$
$R_{13}$	$E_{13}$
$R_{14}$	$E_{14}$
$R_{15}$	$E_{15}$
$R_{16}$	$E_{16}$
$R_{17}$	$E_{17}$
$R_{18}$	$E_{18}$
$R_{19}$	$E_{19}$
$R_{20}$	$E_{20}$
$R_{21}$	$E_{21}$
$R_{22}$	$E_{22}$
$R_{23}$	$E_{23}$
$R_{24}$	$E_{24}$
$R_{25}$	$E_{25}$
$R_{26}$	$E_{26}$
$R_{27}$	$E_{27}$



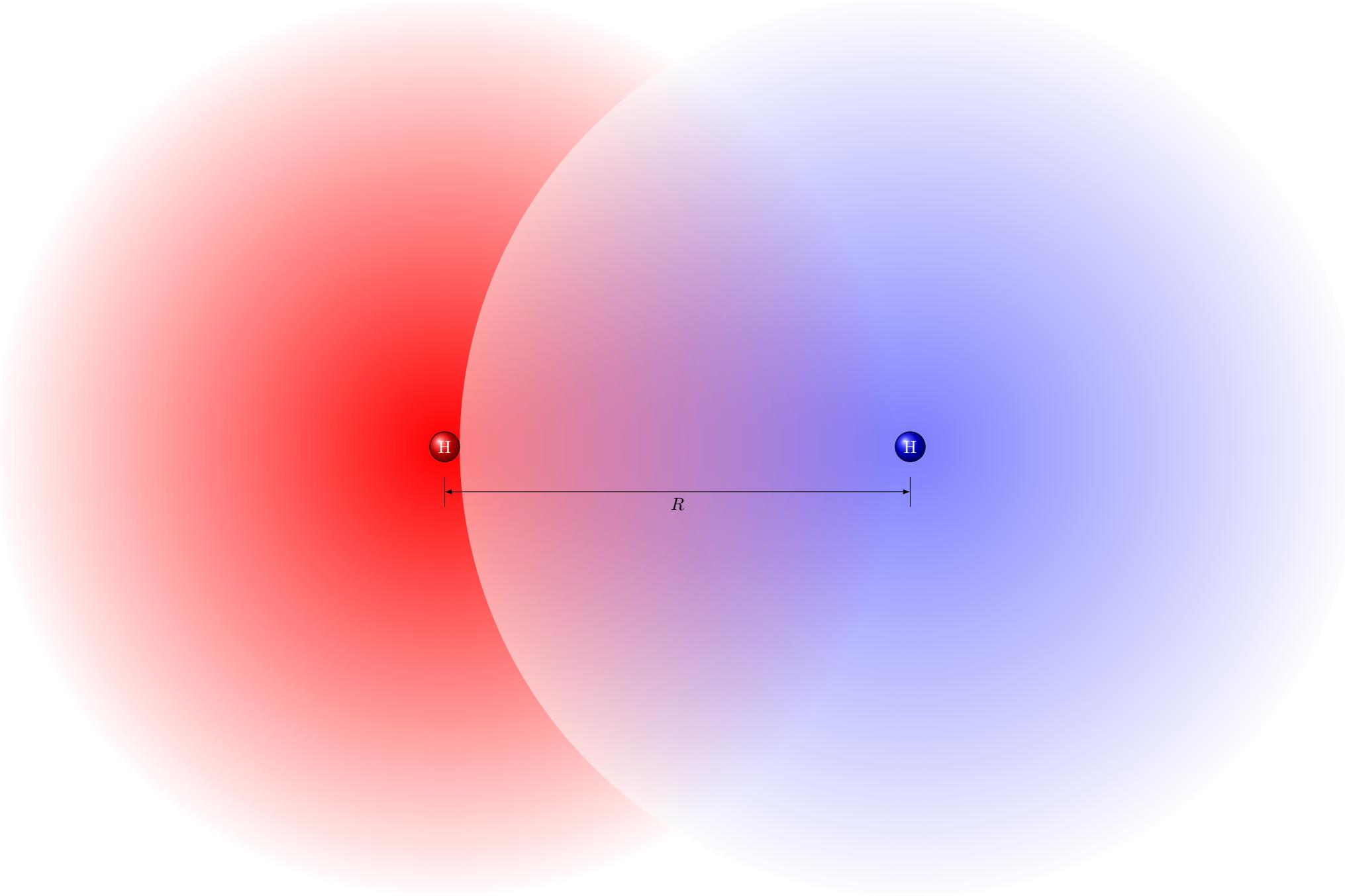
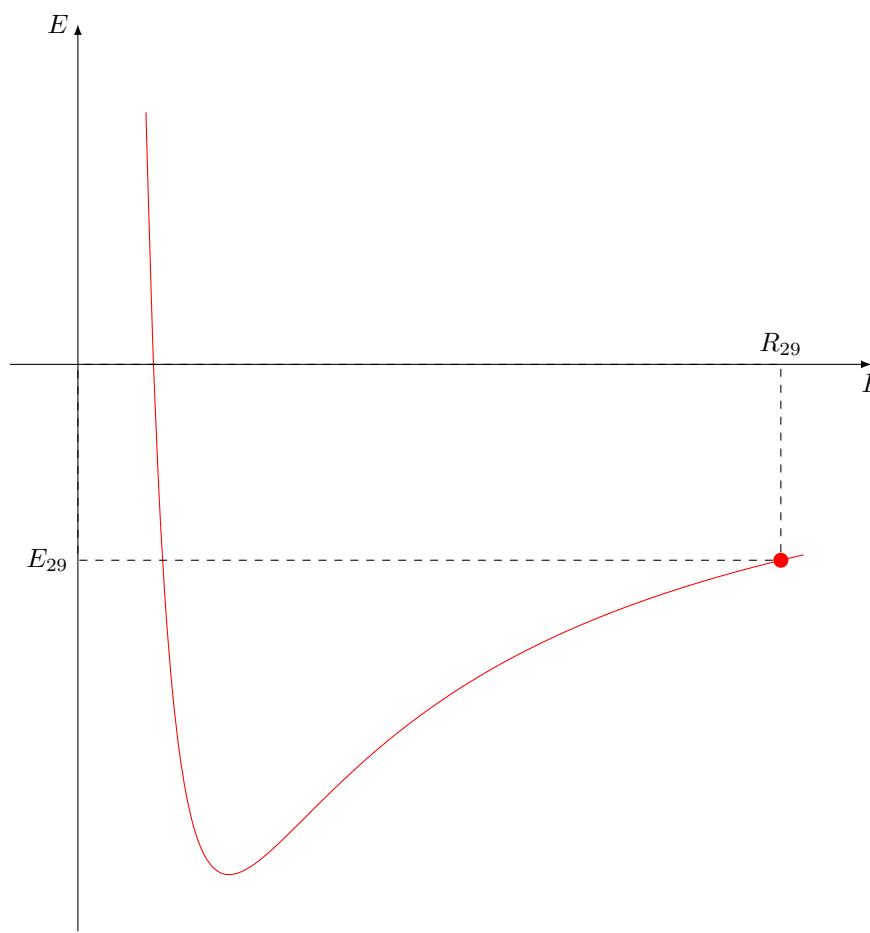
# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
$R_{12}$	$E_{12}$
$R_{13}$	$E_{13}$
$R_{14}$	$E_{14}$
$R_{15}$	$E_{15}$
$R_{16}$	$E_{16}$
$R_{17}$	$E_{17}$
$R_{18}$	$E_{18}$
$R_{19}$	$E_{19}$
$R_{20}$	$E_{20}$
$R_{21}$	$E_{21}$
$R_{22}$	$E_{22}$
$R_{23}$	$E_{23}$
$R_{24}$	$E_{24}$
$R_{25}$	$E_{25}$
$R_{26}$	$E_{26}$
$R_{27}$	$E_{27}$
$R_{28}$	$E_{28}$



# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
$R_{12}$	$E_{12}$
$R_{13}$	$E_{13}$
$R_{14}$	$E_{14}$
$R_{15}$	$E_{15}$
$R_{16}$	$E_{16}$
$R_{17}$	$E_{17}$
$R_{18}$	$E_{18}$
$R_{19}$	$E_{19}$
$R_{20}$	$E_{20}$
$R_{21}$	$E_{21}$
$R_{22}$	$E_{22}$
$R_{23}$	$E_{23}$
$R_{24}$	$E_{24}$
$R_{25}$	$E_{25}$
$R_{26}$	$E_{26}$
$R_{27}$	$E_{27}$
$R_{28}$	$E_{28}$
$R_{29}$	$E_{29}$



# Optimization chemical bond length

$R$	$E$
$R_1$	$E_1$
$R_2$	$E_2$
$R_3$	$E_3$
$R_4$	$E_4$
$R_5$	$E_5$
$R_6$	$E_6$
$R_7$	$E_7$
$R_8$	$E_8$
$R_9$	$E_9$
$R_{10}$	$E_{10}$
$R_{11}$	$E_{11}$
$R_{12}$	$E_{12}$
$R_{13}$	$E_{13}$
$R_{14}$	$E_{14}$
$R_{15}$	$E_{15}$
$R_{16}$	$E_{16}$
$R_{17}$	$E_{17}$
$R_{18}$	$E_{18}$
$R_{19}$	$E_{19}$
$R_{20}$	$E_{20}$
$R_{21}$	$E_{21}$
$R_{22}$	$E_{22}$
$R_{23}$	$E_{23}$
$R_{24}$	$E_{24}$
$R_{25}$	$E_{25}$
$R_{26}$	$E_{26}$
$R_{27}$	$E_{27}$
$R_{28}$	$E_{28}$
$R_{29}$	$E_{29}$
$R_{30}$	$E_{30}$

