

図 3-8 水素原子の動径電荷密度： $|R_{n,l}(r)|^2 r^2$

いろいろな“結合力”

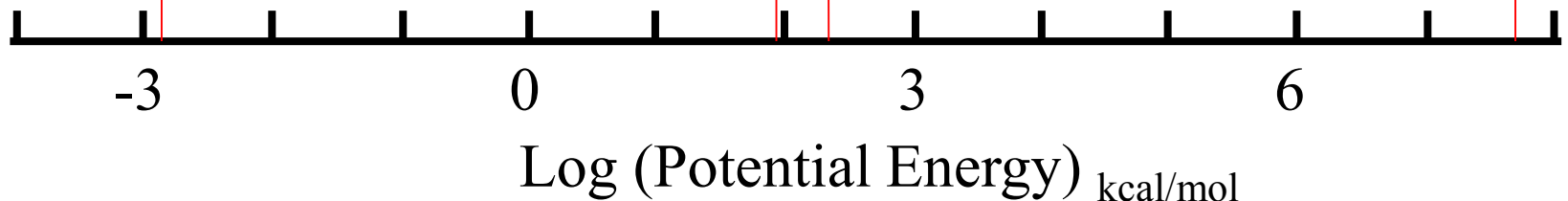
静電相互作用 $\propto q_1q_2/r$: 1.54Å離れた陽子と電子
| (216 kcal/mol)

磁氣的相互作用 $\propto \mu_1\mu_2/r^3$: 1.54Å離れた電子のスピン
| (0.0014 kcal/mol)

“強い”相互作用 : 重水素の陽子と中性子間の力
| (5 x 10⁷ kcal/mol) |

重力 $\propto m_1m_2/r$: 1.54Å離れた炭素原子間
← (3 x 10⁻³² kcal/mol)

化学結合 : 1.54Åの距離にあるC-C
| (90 kcal/mol) |





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