A V^{iso}

$\mathbf{y}_j^0 = \mathbf{x}_j(t_0)$

$\mathbf{\Omega}(t)\mathbf{y}_j^0$

$\mathbf{x}_j(t)$

$\sim \mathbf{F}_j$

0.6

0.4

0.2

1 Å

pivot point $\mathbf{u}$ of rotation axis

B $V^{\text{rm}}, V^{\text{flex}}$

0.9

0.9

0.7

0.4

$\mathbf{\Omega}(t)\mathbf{y}_j^0$

$\mathbf{x}_j(t)$

$\sim \mathbf{F}_j$

$\mathbf{y}_j^0$

$\mathbf{y}_j^0 - \mathbf{y}_c^n$

$\mathbf{x}_j - \mathbf{x}_c^n$

$\hat{\mathbf{v}} \times \mathbf{\Omega}(\mathbf{y}_j^0 - \mathbf{y}_c^n)$

$\mathbf{\Omega}(\mathbf{y}_j^0 - \mathbf{y}_c^n)$

$\mathbf{x}_c^n, \mathbf{y}_c^n$

C $V^{\text{rm2}}, V^{\text{flex2}}$ ($\epsilon' = 0$ nm^2)

0.9

0.9

0.7

0.4

$\mathbf{\Omega}(t)\mathbf{y}_j^0$

$\sim \mathbf{F}_j$

$\mathbf{x}_j(t)$

$\mathbf{y}_j^0$

$\mathbf{y}_j^0 - \mathbf{y}_c^n$

$\mathbf{x}_j - \mathbf{x}_c^n$

$\hat{\mathbf{v}} \times (\mathbf{x}_j - \mathbf{x}_c^n)$

$\mathbf{\Omega}(\mathbf{y}_j^0 - \mathbf{y}_c^n)$

$\mathbf{x}_c^n, \mathbf{y}_c^n$

D $V^{\text{rm2}}, V^{\text{flex2}}$ ($\epsilon' = 0.01$ nm^2)

0.9

0.9

0.7

0.4

$\mathbf{\Omega}(t)\mathbf{y}_j^0$

$\sim \mathbf{F}_j$

$\mathbf{x}_j(t)$

$\mathbf{y}_j^0$

$\mathbf{y}_j^0 - \mathbf{y}_c^n$

$\mathbf{x}_j - \mathbf{x}_c^n$

$\mathbf{\Omega}(\mathbf{y}_j^0 - \mathbf{y}_c^n)$

$\mathbf{x}_c^n, \mathbf{y}_c^n$