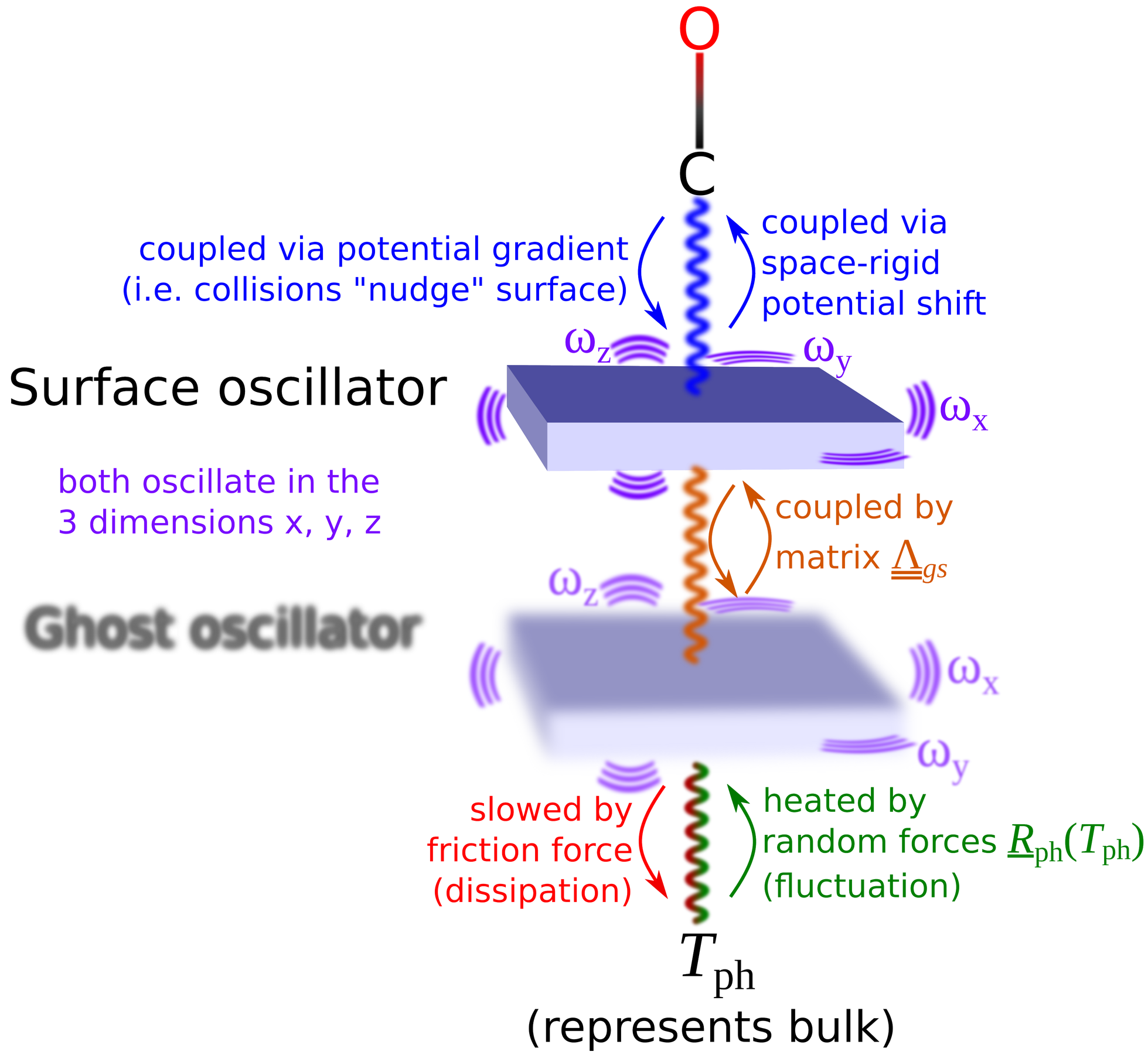
More details on the GLO model



- Equations of motion for surface oscillator $\underline{r}_s$ and ghost oscillator $\underline{r}_g$:

$$m_s \frac{d^2\underline{r}_s}{dt^2} = \underbrace{-\underline{\nabla}_s V(\underline{r}_1 - \underline{r}_s, \underline{r}_2 - \underline{r}_s)}_{\text{Force due to PES}} \underbrace{- m_s \underline{\underline{\Omega}}^2 \underline{r}_s}_{\text{Harmonic oscillator}} \underbrace{+ m_s \underline{\underline{\Lambda}}_{gs} \underline{r}_g}_{\text{Coupling to ghost oscillator}}$$

$$m_s \frac{d^2\underline{r}_g}{dt^2} = \underbrace{-m_s \underline{\underline{\Omega}}^2 \underline{r}_g}_{\text{Harmonic oscillator}} \underbrace{+ m_s \underline{\underline{\Lambda}}_{gs} \underline{r}_s}_{\text{Coupling to surface oscillator}} \underbrace{- \eta_{\mathrm{ph}} \frac{d\underline{r}_g}{dt}}_{\text{Friction force}} \underbrace{+ \underline{R}_{\mathrm{ph}}(T_{\mathrm{ph}})}_{\text{Random forces}}$$

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