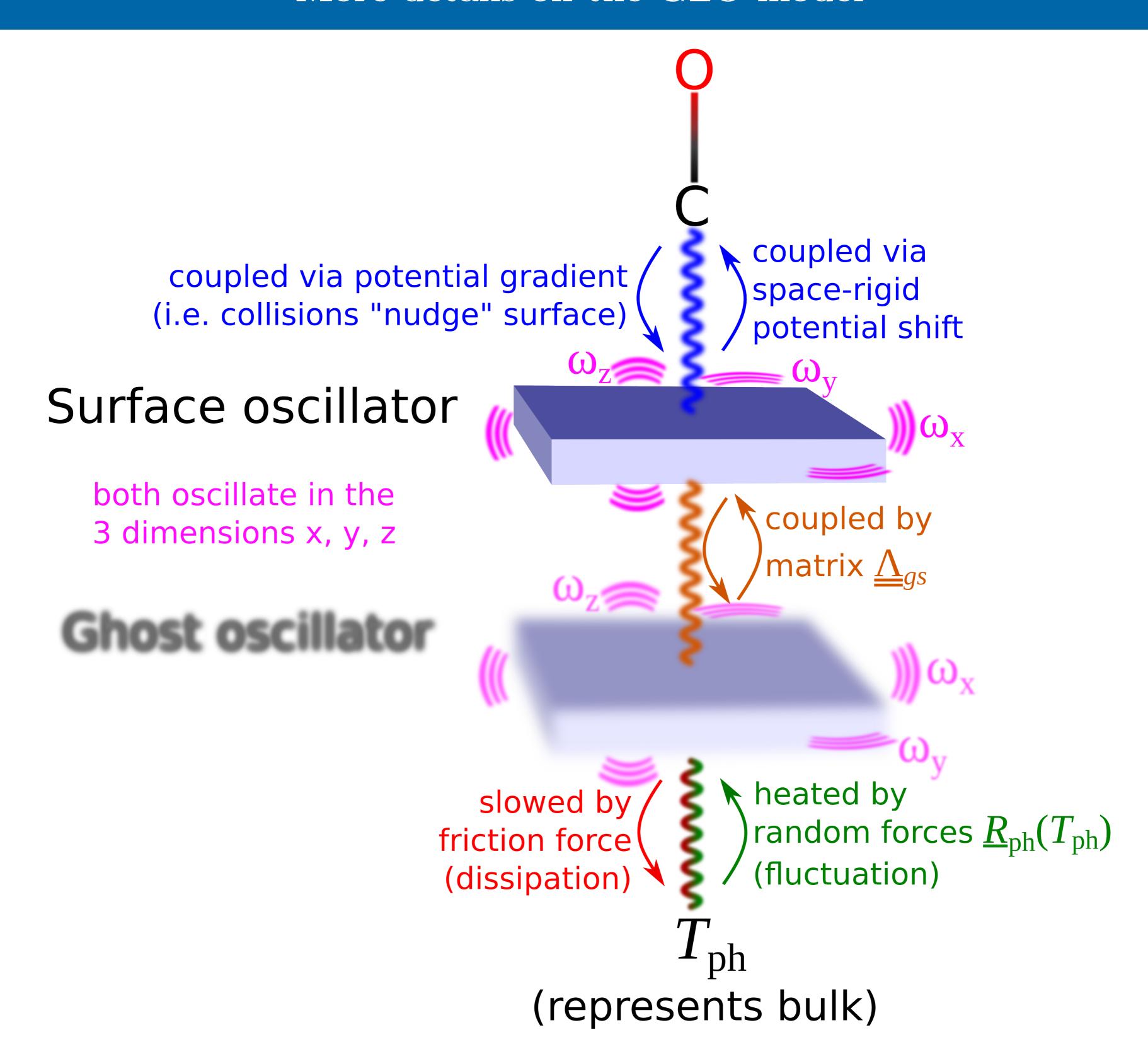
More details on the GLO model



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

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

$$m_s \frac{d^2\underline{r}_g}{dt^2} = -m_s \underline{\underline{\Omega}}^2\underline{r}_g + m_s \underline{\underline{\Lambda}}_{gs}\underline{r}_s - \eta_{\mathrm{ph}} \frac{d\underline{r}_g}{dt} + \underline{R}_{\mathrm{ph}}(T_{\mathrm{ph}})$$

Harmonic Coupling Friction Random oscillator to surface force forces oscillator

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