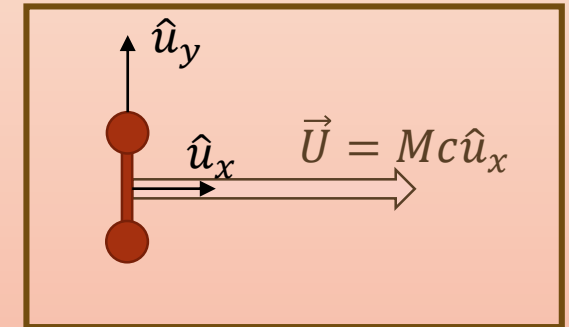
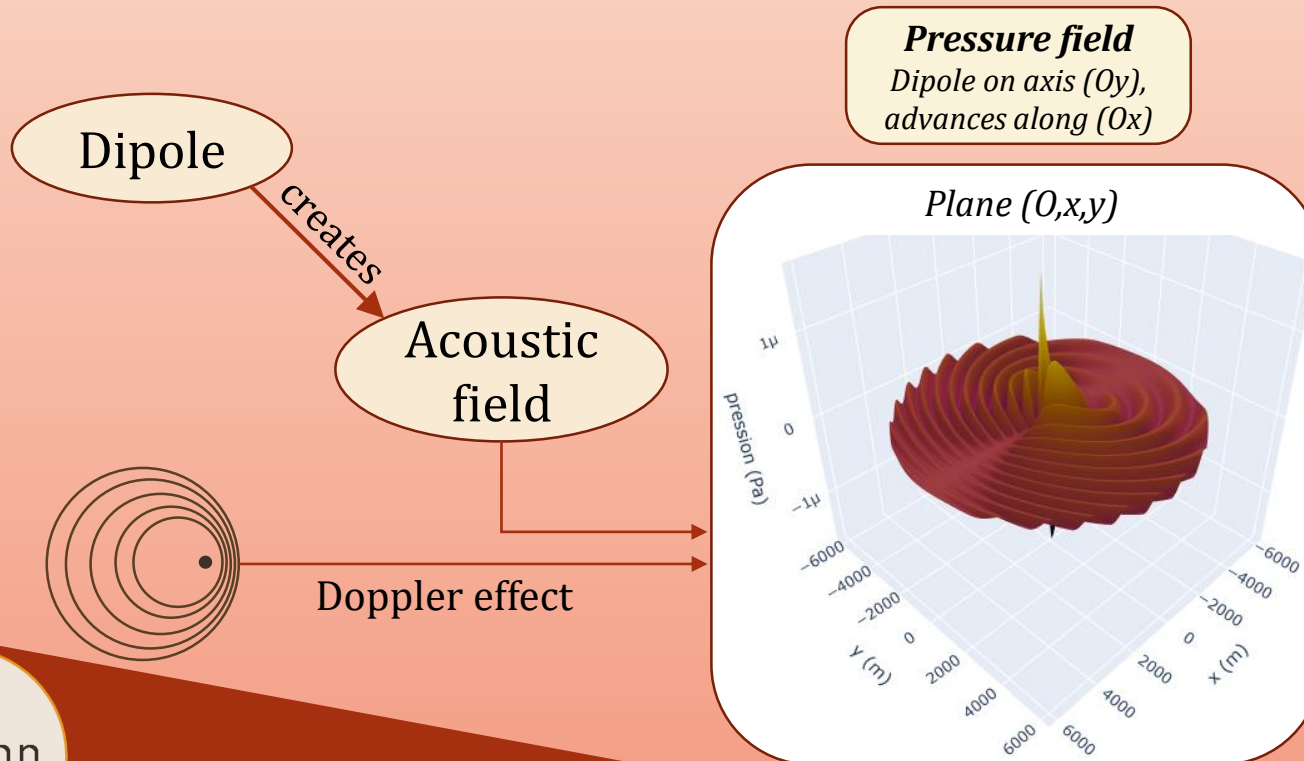


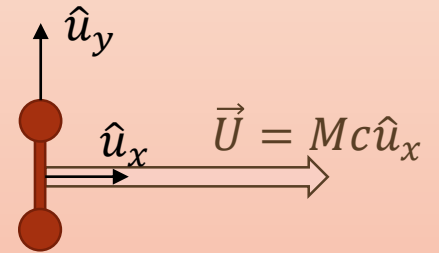
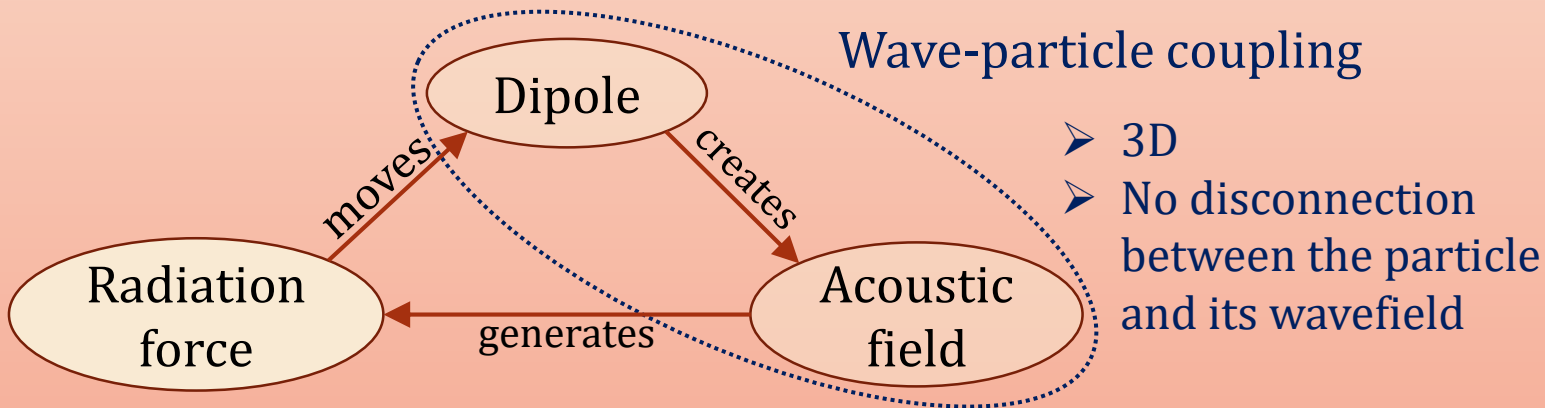
Can an acoustic dipole surf on its own generated radiation force?

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Aymeric Roux
Michaël Baudoin



Toward a 3D macroscopic wave-particle coupling

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$$\vec{F}_{\text{rad}} = \frac{MF^2\omega^2}{24\pi c^4\rho_0} \cdot \hat{u}_x$$

M : Mach number

F : Force of dipole

ω : Pulse

c : Sound speed

ρ_0 : Density of medium