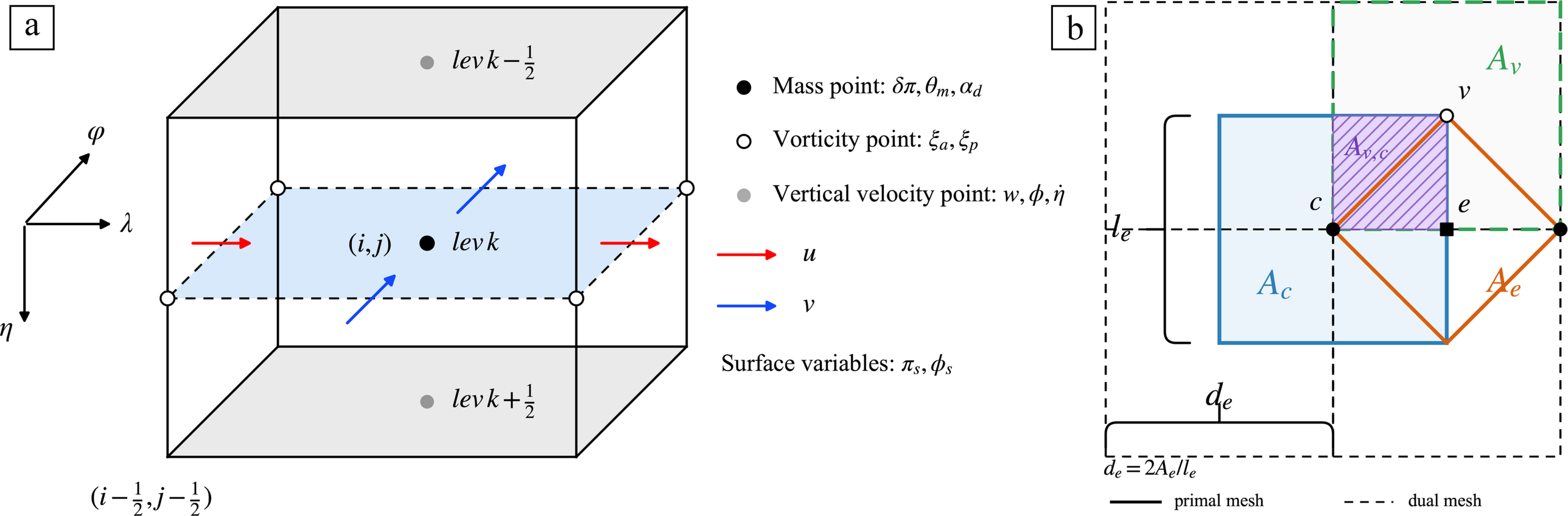

a
$lev\,k-\frac{1}{2}$
φ
λ
η
(i,j)
$lev\,k$
$lev\,k+\frac{1}{2}$
$(i-\frac{1}{2},j-\frac{1}{2})$
Mass point: $\delta\pi,\theta_m,\alpha_d$
Vorticity point: ξ_a,ξ_p
Vertical velocity point: $w,\phi,\dot{\eta}$
u
v
Surface variables: π_s,ϕ_s
b
A_v
v
$A_{v,c}$
c
e
l_e
A_c
A_e
d_e
$d_e=2A_e/l_e$
primal mesh
dual mesh