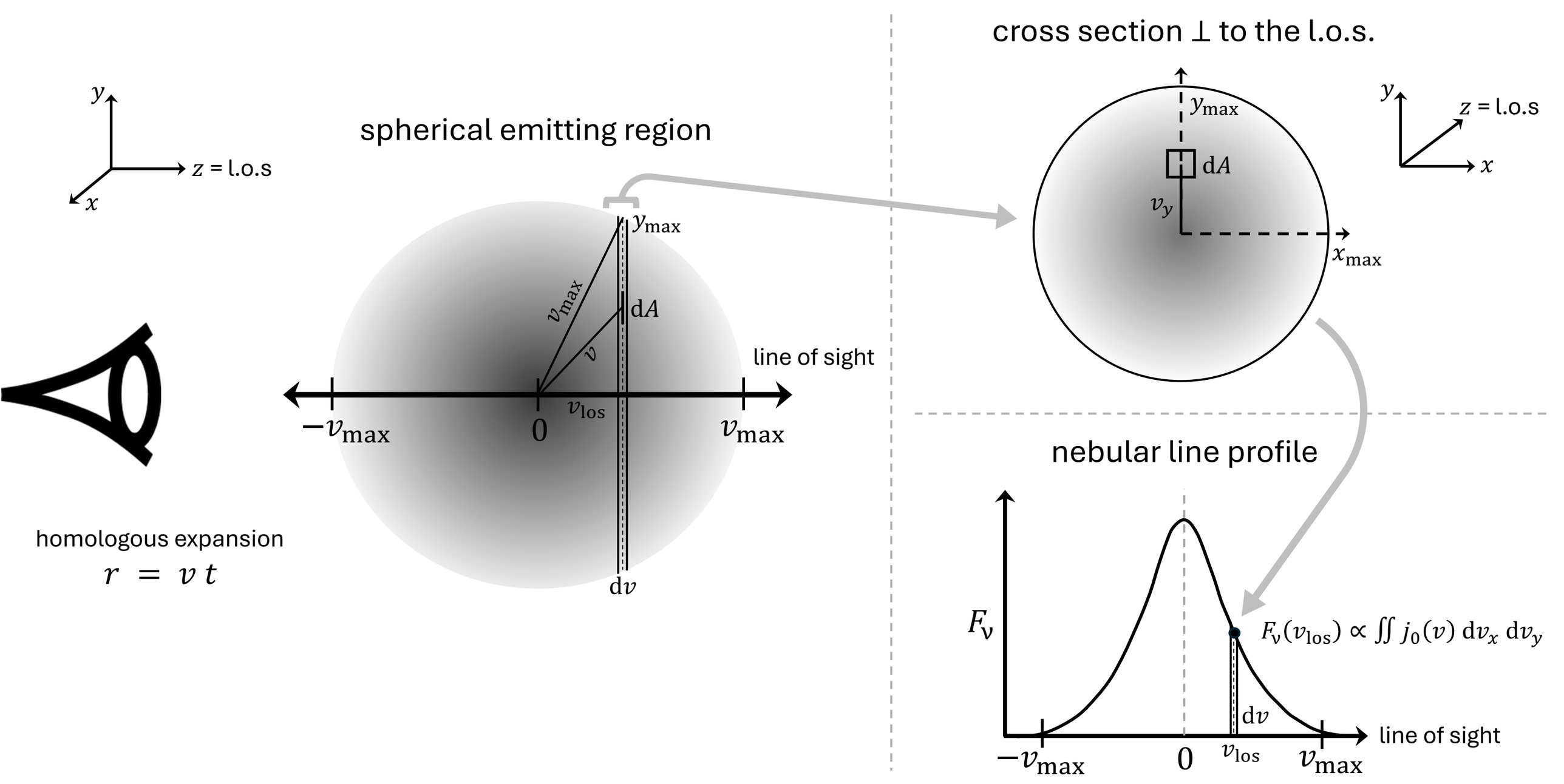
y
z = l.o.s
x
spherical emitting region
y_{max}
v_{max}
dA
v
line of sight
v_{los}
$-v_{max}$
0
v_{max}
dv
homologous expansion
$r = v\,t$
cross section ⊥ to the l.o.s.
y_{max}
dA
v_y
x_{max}
y
z = l.o.s
x
nebular line profile
F_ν
$F_\nu(v_{los}) \propto \iint j_0(v)\,dv_x\,dv_y$
dv
line of sight
$-v_{max}$
0
v_{los}
v_{max}