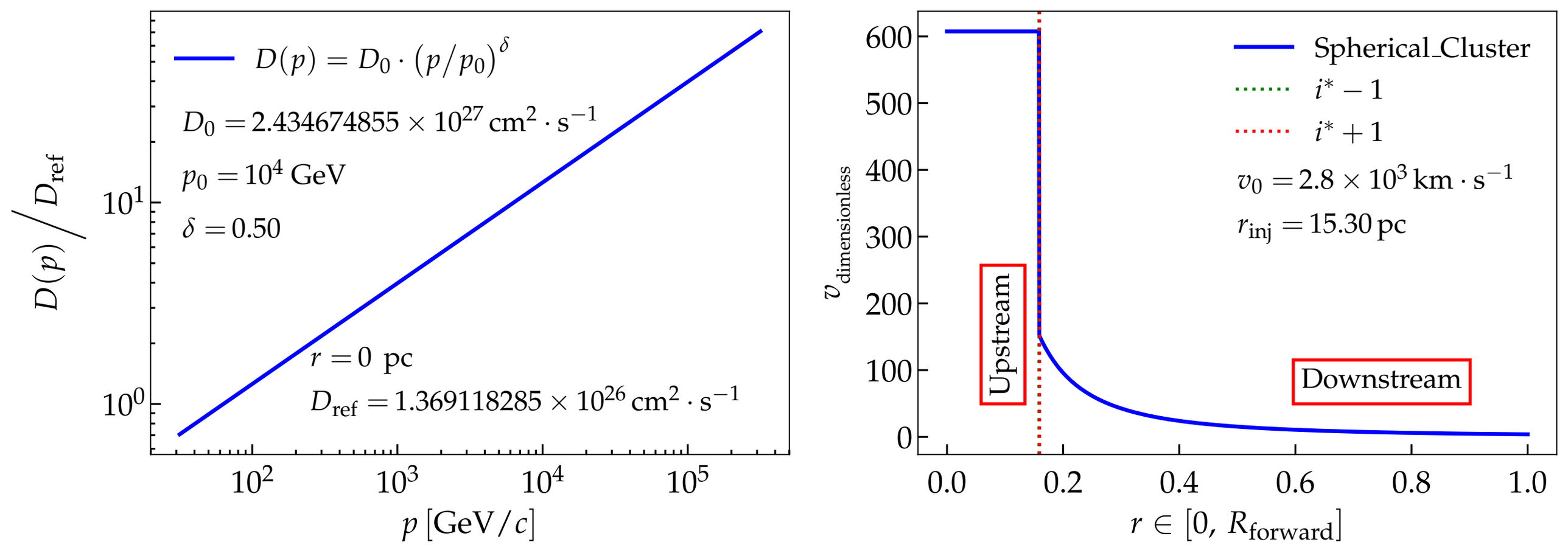
$D(p) = D_0 \cdot (p/p_0)^{\delta}$
$D_0 = 2.434674855 \times 10^{27}\,\mathrm{cm^2 \cdot s^{-1}}$
$p_0 = 10^4\,\mathrm{GeV}$
$\delta = 0.50$
$r = 0$ pc
$D_{\mathrm{ref}} = 1.369118285 \times 10^{26}\,\mathrm{cm^2 \cdot s^{-1}}$
$D(p) \,/\, D_{\mathrm{ref}}$
$p\,[\mathrm{GeV}/c]$
Spherical_Cluster
$i^* - 1$
$i^* + 1$
$v_0 = 2.8 \times 10^3\,\mathrm{km \cdot s^{-1}}$
$r_{\mathrm{inj}} = 15.30\,\mathrm{pc}$
Upstream
Downstream
$v_{\mathrm{dimensionless}}$
$r \in [0,\, R_{\mathrm{forward}}]$