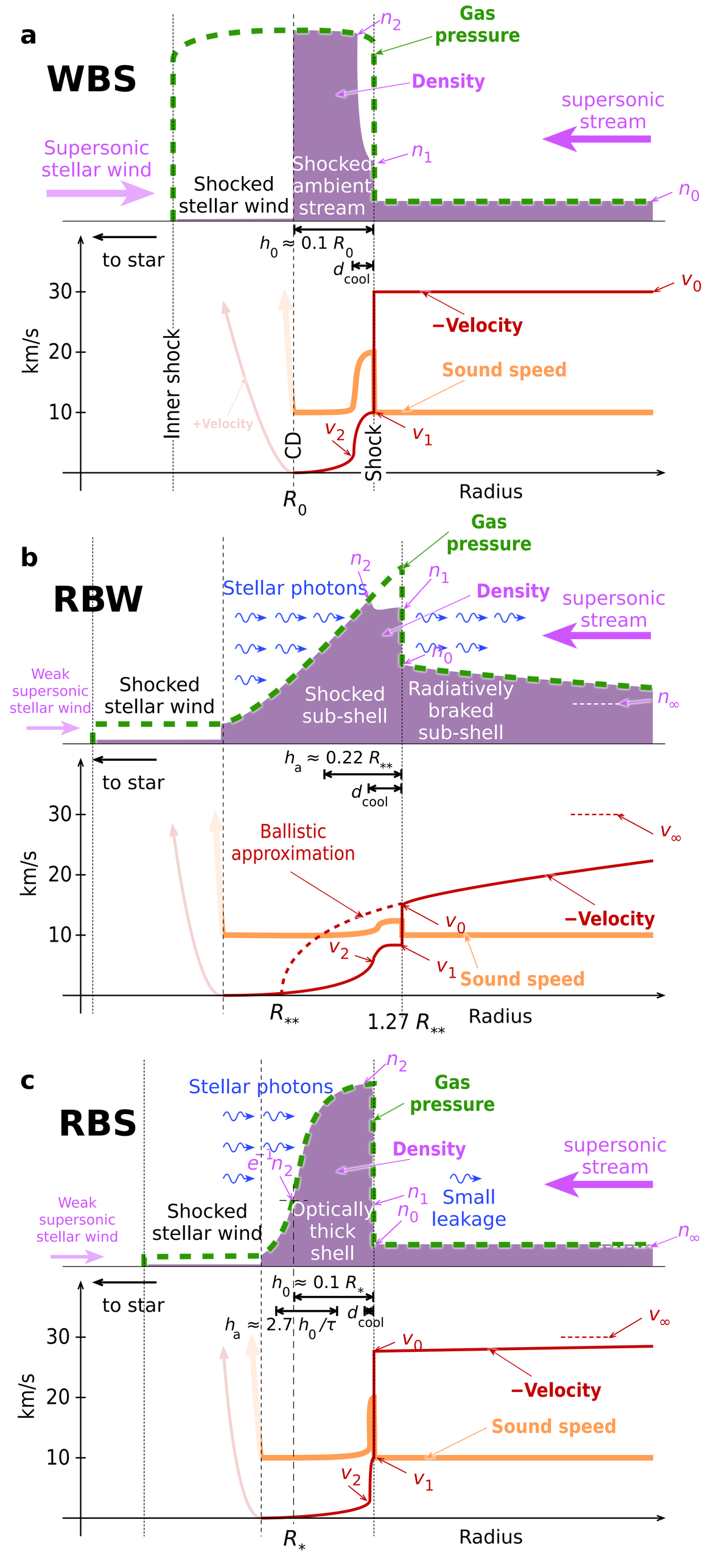
a
WBS
Gas pressure
Density
supersonic stream
Supersonic stellar wind
Shocked stellar wind
Shocked ambient stream
to star
$h_0 \approx 0.1\ R_0$
d_{cool}
km/s
30
20
10
Inner shock
+Velocity
CD
Shock
−Velocity
Sound speed
Radius
R_0
b
RBW
Gas pressure
Stellar photons
Density
supersonic stream
Weak supersonic stellar wind
Shocked stellar wind
Shocked sub-shell
Radiatively braked sub-shell
$h_a \approx 0.22\ R_{**}$
d_{cool}
Ballistic approximation
−Velocity
Sound speed
R_{**}
$1.27\ R_{**}$
Radius
c
RBS
Stellar photons
Gas pressure
Density
supersonic stream
Small leakage
Weak supersonic stellar wind
Shocked stellar wind
Optically thick shell
$h_0 \approx 0.1\ R_*$
$h_a \approx 2.7\ h_0/\tau$
d_{cool}
−Velocity
Sound speed
R_*
Radius