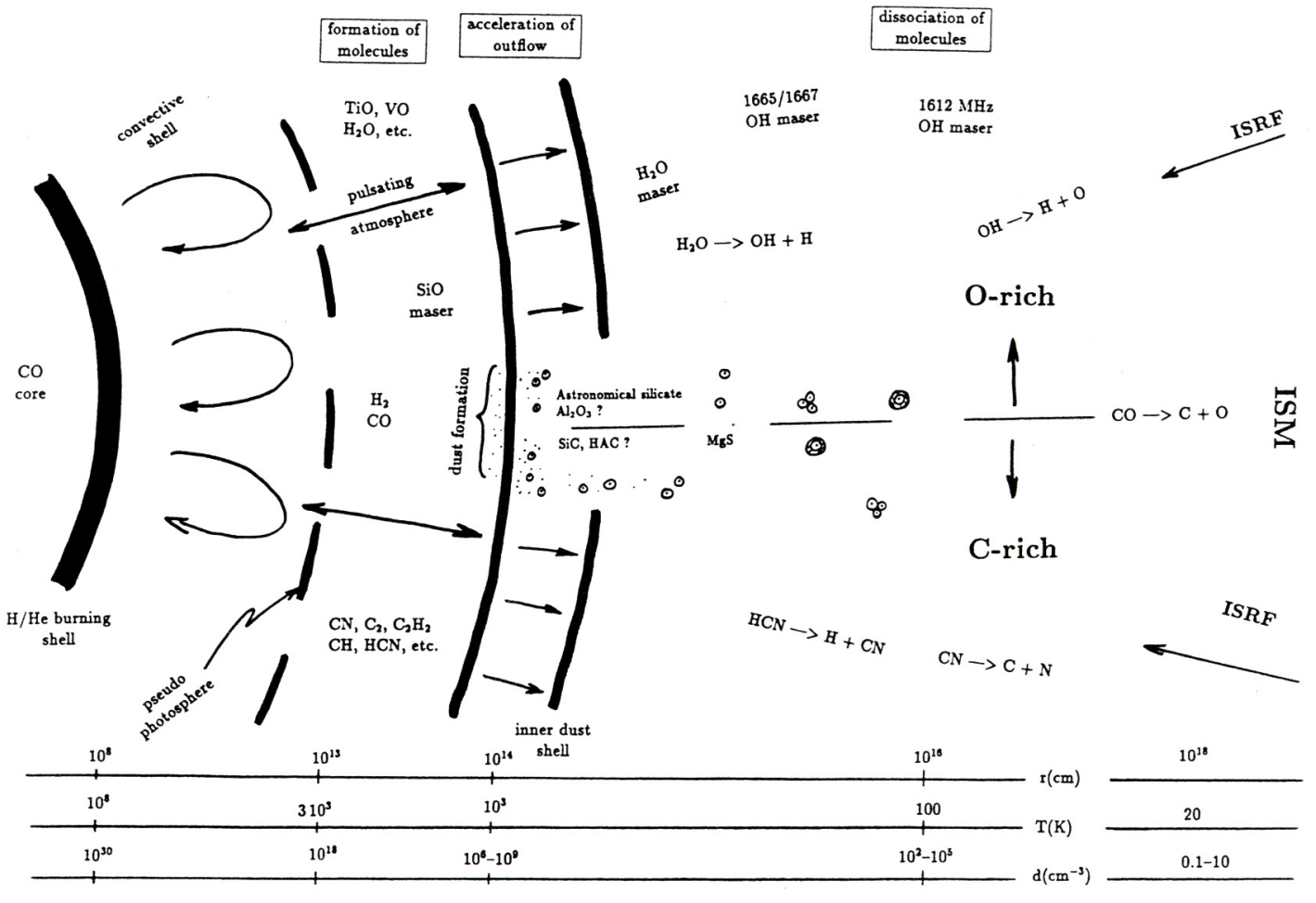
formation of molecules
acceleration of outflow
dissociation of molecules
convective shell
TiO, VO
H_2O, etc.
1665/1667 OH maser
1612 MHz OH maser
ISRF
pulsating atmosphere
H_2O maser
H_2O —> OH + H
OH —> H + O
SiO maser
O-rich
CO core
H_2
CO
dust formation
Astronomical silicate
Al_2O_3 ?
SiC, HAC ?
MgS
CO —> C + O
ISM
C-rich
H/He burning shell
CN, C_2, C_2H_2
CH, HCN, etc.
HCN —> H + CN
CN —> C + N
ISRF
pseudo photosphere
inner dust shell
10^8
10^{13}
10^{14}
10^{16}
10^{18}
r(cm)
10^8
$3\,10^3$
10^3
100
20
T(K)
10^{30}
10^{18}
10^6–10^9
10^2–10^5
0.1–10
d(cm^{-3})