





**Table 2.3** Approximate values of the quantities  $\beta$  and  $\gamma$  in the expression  $\kappa \propto \rho^\beta T^\gamma$  for the opacity of stellar material (Tayler, 1994).

Temperature	Temperature range (K)	Physical processes	$\beta$	$\gamma$
Low	$10^4 - 10^{4.5}$	Atomic and molecular absorption	0.5	4
Medium	$10^{4.5} - 10^7$	Bound-free and free-free absorption	1	-3.5
High	$> 10^7$	Electron scattering	0	0

**Aula 06:** estudar as Seções 2.1-2.5 do Longair.

*Referência complementar:*

Cap. 3 em D. Maoz, “*Astrophysics in a Nutshell*”,  
Princeton University Press, 2007.