

APPENDIX E

COSTANTS AND UNITS USED IN THIS THESIS

E.1. ASTRONOMICAL CONSTANTS

<i>Symbol</i>	<i>Name</i>	<i>Value</i>
AU	Astronomical Unit	$1.495985 \cdot 10^{13}$ cm
Crab	Crab (2÷6 keV)	$2.25 \cdot 10^{-8}$ erg cm ² s ⁻¹
G	Universal gravitational constant	$6.6732 \cdot 10^{-8}$ erg cm g ⁻²
Jy	Jansky	10^{-23} erg cm ⁻² s ⁻¹ Hz ⁻¹
L_{\odot}	Solar luminosity	$3.90 \cdot 10^{33}$ erg s ⁻¹
LY	Light-year	$9.4605 \cdot 10^{17}$ cm
M_{\odot}	Solar mass	$1.989 \cdot 10^{33}$ g
pc	Parsec	$3.0856 \cdot 10^{18}$ cm
R_{\odot}	Solar radius	$6.9598 \cdot 10^{10}$ cm

E.2. PHYSICAL CONSTANTS

<i>Symbol</i>	<i>Name</i>	<i>Value</i>
c	Velocity of light in vacuum	$2.9979250 \cdot 10^{10}$ cm s ⁻¹
e	Electron charge	$4.80325 \cdot 10^{-10}$ ues
eV	Elettronvolt	$1.6022 \cdot 10^{-12}$ erg
h	Planck constant	$6.6252 \cdot 10^{-27}$ erg s
k	Boltzmann constant	$1.380622 \cdot 10^{-16}$ erg K ⁻¹
m_e	Electron rest mass	$9.109558 \cdot 10^{-28}$ g
σ	Stefan-Boltzmann constant	$5.678 \cdot 10^{-5}$ erg

E.3. MATHEMATICAL CONSTANTS

<i>Symbol</i>	<i>Name</i>	<i>Value</i>
e	Napier's number	2.7182818
π	Pi	3.1415927