

Errata “Lecture Notes on Stellar Dynamics”
L. Ciotti - Edizioni della Normale - Springer (2001)
ISBN: 978-88-7642-266-9

November 22, 2020

Pag. 73 In eq. (7.18a) and in the first equation in Footnote 7.6 the quantity \ddot{I} should be substituted with $\ddot{I}/2$. Moreover, in the Footnote,

$$P_{ij} = \frac{1}{2} \int_{\partial V} \rho(\sigma_{ik}^2 x_j + \sigma_{jk}^2 x_i) n_k d^2 \mathbf{x}.$$

Pag. 76-77 In eq. (8.1) exchange \mathbf{x} with $\boldsymbol{\xi}$, and \mathbf{v} with $\boldsymbol{\nu}$, and $\mathcal{R} = \mathcal{R}_3(\varphi)\mathcal{R}_2(\vartheta)\mathcal{R}_3(\psi)$. Eq. (8.3) should read

$$f'(\boldsymbol{\xi}, \boldsymbol{\nu}; t) = f(\mathcal{R}\boldsymbol{\xi}, \mathcal{R}\boldsymbol{\nu}; t),$$

and in the following $F'(\boldsymbol{\xi}, \boldsymbol{\nu}; t) = F(\mathcal{R}\boldsymbol{\xi}, \mathcal{R}\boldsymbol{\nu}; t)$ and $\overline{F}'(\boldsymbol{\xi}; t) = \overline{F}(\mathcal{R}\boldsymbol{\xi}; t)$.

Pag. 85 In the text, the coefficient of the function P_v in the fourth line should be $A = 1$. The coefficient of LP in the sixth line should be c/λ_0 .

Pag. 110 In the square root at denominator of the integrand in eq. (10.6h), the angular momentum L should be set to zero.

Pag. 113 In eq. (10.8a) and in the proof, $\alpha > -1$ instead of $\alpha > -1/2$.

Pag. 113 In the integrand of eq. (10.8d) the exponent is $\alpha + 3/2$ instead of $3/2$.

Pag. 114 After eq. (10.8e), the correct sentence is “*the velocity dispersion is radially anisotropic (for $-1 < \alpha < 0$) or tangentially anisotropic for ...*”

Pag. 128 The lower limit of integration in the inner integral of the first expression for $S(x)$ should be R instead of r . In the second expression, the lower limit of integration in the outer integral should be x instead of r .

Pag. 137 In eq. (11.16y) the dimensional factor $I(0)/R_e$ is missing.

Pag. 138 In eq. (11.18e) no minus sign should appear. In eq. (11.18f) a factor q^2 is missing at the denominator (thanks to A. Mancino).

Pag. 148 The condition in the fourth line of text is not “ $f_a < 0 \forall Q_k$ ”, but “*for some Q_k* ”.