CORRIGENDA

VOLUME 22, NUMBER 4

"*Hydromagnetic stability of thin self-gravitating disks and spiral structure.*" *By R. J. Hosking. pp. 505–19*

A term $(-J_{0\theta}B_{0z}/c\sigma_0^2)\sigma_1$ is omitted from the right-hand side of equation (16b) (cf. equations (2) and (12)). Equation (17) should therefore read

$$\left(\pm\frac{2\pi i}{\mathscr{R}}G\sigma_0\right)\mathrm{D}^2v_{1r}+\left(\kappa^2-(\omega-m\Omega)^2+\frac{B_{0z}^2}{2\pi\sigma_0}\alpha\right)\mathrm{D}v_{1r}=0,$$

so that equation (19) becomes $\omega_i(\omega_r-m\Omega)=0$. Accordingly, the reference to the introduction of overstability is incorrect, for it follows that the poloidal equilibrium magnetic field is wholly stabilizing. There is stability when

$$B_{0z}\gtrsim(4\pi^2G\sigma_0^2/\mathscr{R})^{\frac{1}{2}},$$

and it is notable that for the parameters $\mathscr{R}=0{\cdot}1$ and $\sigma_0=10^{-3}\,\mathrm{g\,cm^{-2}}$ the critical magnitude is about 5 μG. Consequently, it is possible for a magnetic field to inhibit the development of a spiral pattern due to self-gravitation, at least in the magnetically responsive gas component of a galaxy. It is interesting to speculate whether galaxies without spiral structure may possess a significant poloidal magnetic field.

VOLUME 26, NUMBER 3

"*Calculation of the prompt gamma energy of individual fission fragments from the prompt neutron numbers.*" *By Shankar Mukherji, K. B. Lal, and Tejasvi Sharma. pp. 279–89.*

Page 285, Section III(*d*). Replace $-0{\cdot}00036\ \mathrm{MeV^{-1}}$ by $-0{\cdot}0036\ \mathrm{MeV^{-1}}$.

Page 289, equation (A4). Replace by

$$\left(\frac{\partial E_{\mathrm{K_T}}}{\partial\bar{\alpha}_2}\right)_r\approx-\frac{Z_{\mathrm{H}}Z_{\mathrm{L}}e^2}{r_0(A_{\mathrm{H}}^{1/3}+A_{\mathrm{L}}^{1/3})(1+\bar{\alpha}_2)^2},$$

Page 289, final equation. Replace the right-hand side by $-0{\cdot}0036\ \mathrm{MeV^{-1}}$.