

Erratum

Suppressed radio emission in supercluster galaxies: enhanced ram pressure in merging clusters?

J.-C. Mauduit¹ and G. A. Mamon^{2,3}

¹ Observatoire de la Côte d'Azur, BP 4229, 06304 Nice Cedex 4, France
e-mail: gam@iap.fr

² Institut d'Astrophysique de Paris (UMR 7095: CNRS & UPMC), 98 bis Bd. Arago, 75014 Paris, France

³ Astrophysics & BIPAC, University of Oxford, Keble Rd, Oxford OX1 3RH, UK

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The paper “Suppressed radio emission in supercluster galaxies: enhanced ram pressure in merging clusters” was published in A&A 475, 169. There is a double typographical error in Appendix A. In Eqs. (A.2) and (A.9), which both express the squared aperture velocity dispersion of a respectively general and NFW (Navarro et al. 1996) spherical system, there is a factor 3 missing in the terms in front of the integrals, so that the squared aperture velocity dispersion should be 3 times smaller than given¹. These two equations should thus read

$$\sigma_{\text{ap}}^2(R) = \frac{4\pi G}{3 M_p(R)} \left[\int_0^\infty r \rho(r) M(r) dr - \int_R^\infty \frac{(r^2 - R^2)^{3/2}}{r^2} \rho(r) M(r) dr \right] \quad (\text{A.2})$$

and

$$\tilde{\sigma}_v^2(Y r_{\text{vir}}/c) = \frac{c}{3g} \frac{\int_0^\infty y \tilde{\rho} \tilde{M} dy - \int_Y^\infty (y^2 - Y^2)^{3/2} \tilde{\rho} \tilde{M} dy/y^2}{C^{-1}(1/Y) |Y^2 - 1|^{1/2} + \ln(Y/2)}. \quad (\text{A.9})$$

However, all other equations (in particular Eqs. (A.10) and (A.11)) are correct as is the accompanying discussion.

Note that the derivation of Eq. (A.9) involves not only Eq. (A.2) of Mauduit & Mamon (2007) and Eq. (42) of Łokas & Mamon (2001), but also Eq. (43) of Łokas & Mamon.

References

- Łokas, E. L., & Mamon, G. A. 2001, MNRAS, 321, 155
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¹ This factor of 3 is also missing in Eq. (B.7) of Mamon & Łokas (2005), as reported by Mamon & Łokas (2006).