



Algebraic geometry

Corrigendum to “On a family of complex algebraic surfaces of degree $3n$ ” [C. R. Acad. Sci. Paris, Ser. I 351 (17–18) (2013) 699–702]

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In the proof of the Lemma, page 700 of [1], the critical values ζ of H_d and the number of points N_ζ corresponding to ζ inside Δ , denoted by (ζ, N_ζ) , are:

$$\text{a) } \left(6, \frac{d(d-3)}{6}\right); u = \frac{3k+1}{3d}, v = \frac{3l+1}{3d}; k, l \in \mathbf{Z}.$$

$$\text{b) } \left(-3, \frac{d^2}{3} - d + 1\right); u = \frac{k}{3d}, v = \frac{l}{3d}, \text{ with } k = 3m - 1, l = 3p - 1 \text{ or } k = 3m, l = 3p; m, p \in \mathbf{Z}.$$

$$\text{b1) } \left(-3, \frac{d(d-3)}{6}\right); u = \frac{3m+2}{3d}, v = \frac{3p+2}{3d}; m, p \in \mathbf{Z}.$$

$$\text{b2) } \left(-3, 1 + \frac{d(d-3)}{6}\right); u = \frac{m}{d}, v = \frac{p}{d}; m, p \in \mathbf{Z}.$$

$$\text{c) } \left(-2, \binom{d}{2}\right); u = \frac{3k+2}{6d}, v = \frac{3l+2}{6d} \text{ with } k \text{ or } l \text{ odd.}$$

$$\text{c1) } \left(-2, \frac{d(d-1)}{3}\right); u = \frac{6m-1}{6d}, v = \frac{3p-1}{6d}; m, p \in \mathbf{Z}.$$

$$\text{c2) } \left(-2, \frac{d(d-1)}{6}\right); u = \frac{6m+2}{6d}, v = \frac{6p-1}{6d}; m, p \in \mathbf{Z}.$$

There is a factor of 3 in the critical points which is missing in the corresponding paragraph a) of [1]. Also N_ζ are interchanged in paragraphs b1) and b2).

References

- [1] J.G. Escudero, On a family of complex algebraic surfaces of degree $3n$, C. R. Acad. Sci. Paris, Ser. I 351 (2013) 699–702.

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