

## Erratum

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### On first order congruences of lines of $\mathbb{P}^4$ with a fundamental curve

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In [1] we gave a complete classification of first order congruences in  $\mathbb{P}^4$  such that they have a dimension one (possibly embedded) component in their focal locus. Unfortunately, the formula at p. 113, second line is not correct and should be read “length( $C_H \cap C$ ) =  $m_1 - 2$ ” instead of “length( $C_H \cap C$ ) =  $m_1 - 1$ ”. This error also implies that formulae (4) and (10) are incorrect and the correct versions are, respectively:  $\chi(\mathcal{O}_{C_H}(1)) = 4$  and  $h^1(\mathcal{O}_{C_H}) = 0$ , so that  $F_1$  is a rational nonspecial surface. Finally, the classification of the congruences has to be changed as follows: in Theorem 1, case (1b) one should change  $m_1 - 1$  in  $m_1 - 2$ ; Theorem 1, case (1c) should be read as follows:

“ $C$  is a line and  $F_1$  is a nonspecial rational surface, i.e. we have the following (effective) possibilities (see [2] for further details)  $3 \leq \deg(F_1) \leq 9$ .”

Note also the change of the reference from [3] to [2].

## References

1. De Poi, P.: On first order Congruences of Lines of  $\mathbb{P}^4$  with a fundamental curve. *Manuscr. Math* **106**, 101–116 (2001)
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