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## Study of the X-ray activity of Sagittarius A\* during the 2011 *XMM-Newton* campaign (Corrigendum)

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**Key words.** Galaxy: center – X-rays: individuals: Sgr A\* – radiation mechanisms: general – errata, addenda

The weight equation in Sect. 3.1 of [Mossoux et al. \(2015\)](#) unfortunately features a typo. The correct equation should read:

$$w = \frac{CR_{\text{src+bkg}}}{CR_{\text{src+bkg}} - CR_{\text{bkg}}} \quad (1)$$

with  $CR_{\text{src+bkg}}$  the count rate of the Bayesian block of the source+background event list and  $CR_{\text{bkg}}$  the count rate of the corresponding Bayesian block of the background that is surface-corrected. As introduced in the first preprint version of the proceeding of [Scargle et al. \(2013\)](#), this weight equation adjusts the Voronoi time-interval in order to subtract the average background. The results presented in [Mossoux et al. \(2015\)](#) remain unchanged since they were all obtained following the recipe of [Scargle et al. \(2013\)](#) and using the correct equation for the Voronoi time-interval weighting.

Therefore, the “alternative” photon-weighting recently tested by [Worpel & Schwope \(2015\)](#) in their Sect. 4.6 ( $w \equiv 1 - CR_{\text{bkg}}/CR_{\text{src+bkg}}$ ) is actually equivalent to the recipe of [Scargle et al. \(2013\)](#) that we used in [Mossoux et al. \(2015\)](#) since the photon-weighting is equal to the inverse of the Voronoi time-interval weighting. Indeed, the “alternative” photon-weighting of [Worpel & Schwope \(2015\)](#) is identical to those used in Eq. (1) of [Mossoux et al. \(2015\)](#) to compute smoothed light-curve.

### References

- Mossoux, E., Grosso, N., Vincent, F. H., & Porquet, D. 2015, *A&A*, 573, A46  
Scargle, J. D., Norris, J. P., Jackson, B., & Chiang, J. 2013, 2012 Fermi Symp. Proc. – eConf C121028 [[arXiv:1304.2818v1](https://arxiv.org/abs/1304.2818v1)]  
Worpel, H., & Schwope, A. D. 2015, *A&A*, 578, A80