

## **The effect of numerical aperture on quantitative use-wear studies and its implication on reproducibility**

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**Supplementary Material 4.** Python script and results of the Bayesian Multi-factor ANOVA.

All files are available on Zenodo (DOI: <https://doi.org/10.5281/zenodo.2594746>).

‘analysisRestrictedModel.py’: Python script of the analysis procedure.

‘\*\_Auto.pdf’: Energy plots of Hamiltonian Monte Carlo for the 26 ISO 25178-2 parameters and for ISO 4287 *Ra*.

‘\*\_Contrasts.pdf’: Contrast plots between 50 $\times$ /0.75 and 50 $\times$ /0.95 objectives for the 26 ISO 25178-2 parameters and for ISO 4287 *Ra*. See also Fig. 3 for *Sa*, *Sdr*, *Sku*, *Sq*, *Std*, *Str*, *Sxp* and *Vmc* and Fig. 5b for *Ra*.

‘\*\_HistoMatrix.pdf’: Histograms of posterior for the 26 ISO 25178-2 parameters and for ISO 4287 *Ra*.

‘\*\_Trace.pdf’: Trace plots for the 26 ISO 25178-2 parameters and for ISO 4287 *Ra*.