

Volume 28 (2021)

Supporting information for article:

PROXIMA-1 beamline for Macromolecular Crystallography measurements at Synchrotron SOLEIL

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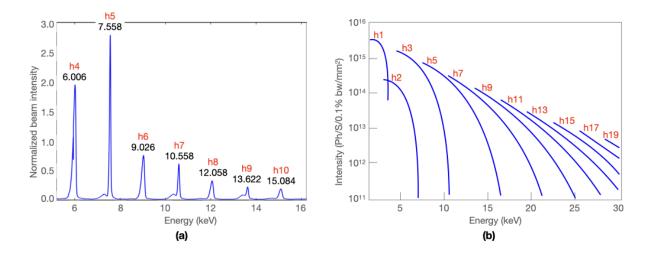


Figure S1 (a) Measured distribution of the available harmonics (numbered in red) coming out of the U20 undulator for a fixed closed gap of 5.5 mm at PROXIMA-1. On the top of each harmonic is also indicated the energy value at the peak. (b) Calculated tuning curve representing the beam flux depending on the photon energy for the odd harmonics (mainly 3rd, 5th, 7th and 9th harmonics, respectively).

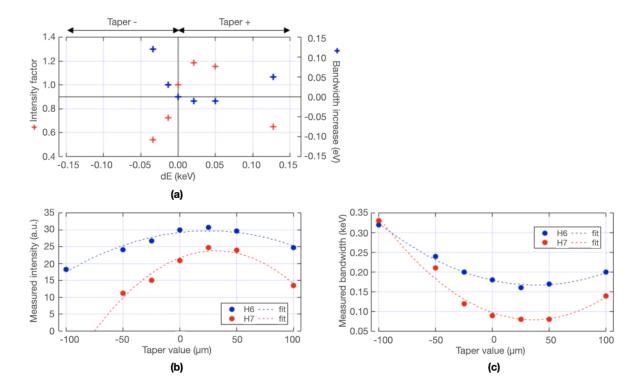


Figure S2 Improvement of the quality of the X-ray beam at PROXIMA-1 with the implementation of the taper mode on the undulator. (a) Gain in intensity (red) and variations of the bandwidth (blue) for the 7^{th} harmonic depending on a small shift in energy (dE) caused by negative and positive tapering (Taper - and Taper +, respectively) and in comparison, with the situation where no taper-correction is

applied (dE = 0.00). Variations in intensities (**b**) and in bandwidth (**c**) for the 6th (blue) and 7th (red) harmonics depending on the variation in taper values.