

### Method of calculating the coherent scattering power of crystals with unknown atomic arrangements and its application in the quantitative phase analysis — Addendum

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The authors noted that equations (4) and (11) in our paper (Li *et al.*, 2022) were presented as equations (4) and (14) respectively in a previous publication by Kartha (1953) after our paper had been published online. Kartha also stated that Eq. (4) in his publication was a result given by Hettich (1935). We derived these equations in different ways without being aware of the presence of these two publications.

We apologize for the oversight and not citing these two publications.

Hettich, A. (1935). "Development of absolute x-ray intensities with the aid of other physical data," *Z. Kryst.* **91**, 154–156.

Li, H., He, M., and Zhang, Z. (2022). "Method of calculating the coherent scattering power of crystals with unknown atomic arrangements and its application in the quantitative phase analysis," *Powder Diffr.* **37**(1), 34–39.

Kartha, G. (1953). "A new method of calculating the scale factor in structure analysis," *Acta Cryst.* **6**, 817–820.

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