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Title: Non-dipolar effects in photoelectron-based normal incidence x-ray standing wave experiments

Author: Gerben van Straaten Markus Franke François C. Bocquet F. Stefan Tautz Christian Kumpf



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**Highlights:**

- Multipole effects in XSW are discussed for geometries close to normal incidence.
- These multipole effects are found to be strongly affected by experimental geometry.
- The correct mathematical formalism for correcting these effects is presented.
- Consequences of the new formalism are demonstrated for selected prototypical systems.

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