



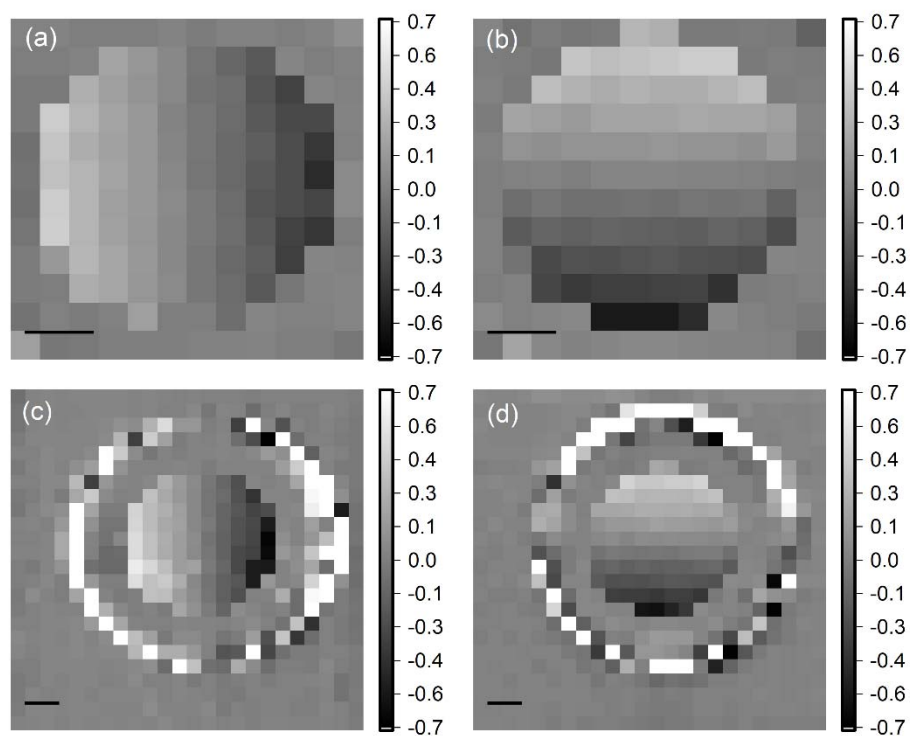
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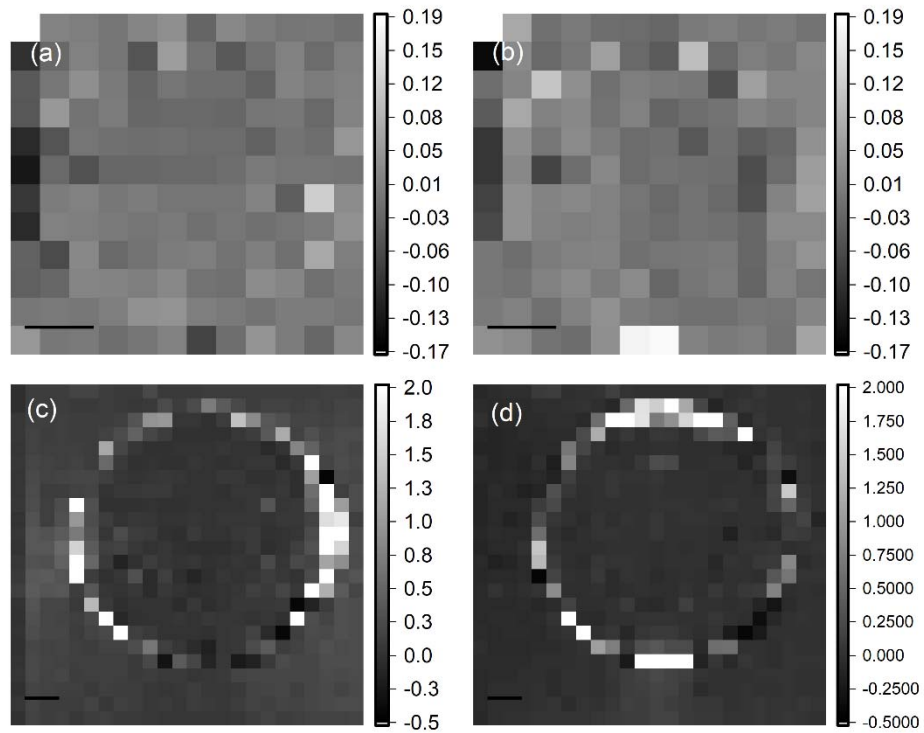
**Supporting information for article:**

**Shack–Hartmann wavefront sensors based on 2D refractive lens arrays and super-resolution multi-contrast X-ray imaging**

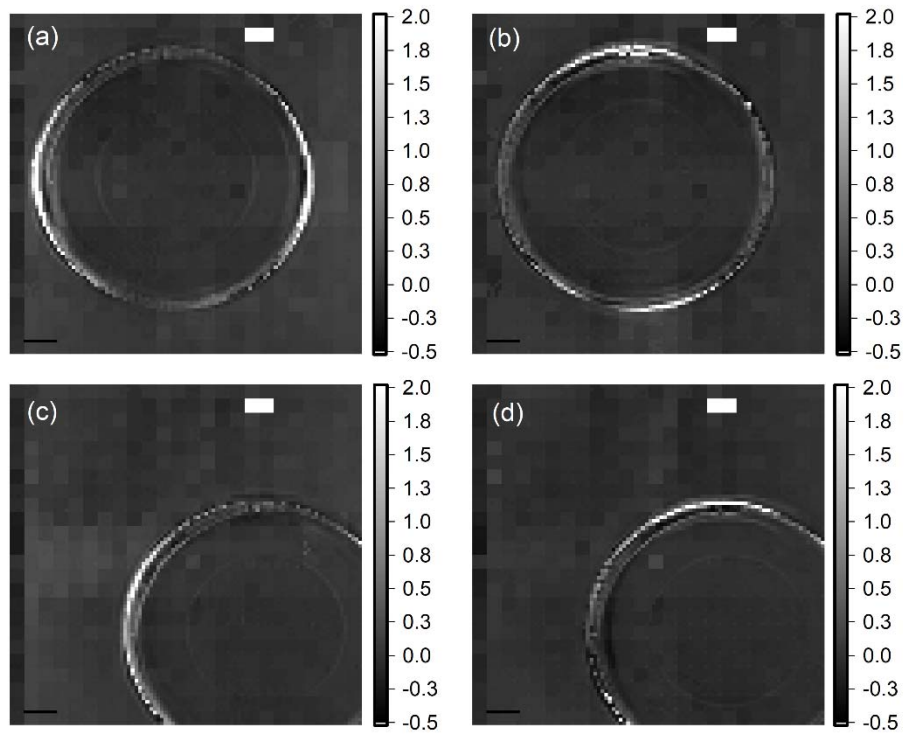
**Andrey Mikhaylov, Stefan Reich, Margarita Zakharova, Vitor Vlnieska, Roman Laptev, Anton Plech and Danays Kunka**

**S1. Multi-contrast imaging performance of SHSX v2.0 and v2.1. Phase-contrast and dark-field contrast images for Section 3.4**

**Figure S1** Images of diamond lens in differential phase contrast acquired using SHSX v2.0 (a, b) and SHSX v2.1 (c, d) (scale bars are 200  $\mu\text{m}$ ).



**Figure S2** Images of diamond lens in dark-field contrast acquired using SHSX v2.0 (a, b) and SHSX v2.1 (c, d) (scale bars are 200  $\mu\text{m}$ ).

**S2. Super-resolution multi-contrast imaging of diamond lens by interleaving measurement.****Dark-field pictures for Section 5.**

**Figure S3** Super-resolution images of diamond lens in dark-field contrast acquired using SHSX v2.1: LG area (a, b) and HG area (c, d) of the SHXS v.2.1 (scale bars are 200  $\mu\text{m}$ ).