\[ \nabla^2 n(x, y) = \frac{1}{L} \frac{l_0 - l_d}{l_0} \]
Progress Report, September 21

\[ \nabla^2 n(x, y) = \frac{1}{L} \frac{l_0 - l_d}{l_0} \]

Processed data:

• Top left - raw data
• Top right - region of interest (plasma)
• Middle left - reference
• Middle right - reference region of interest
• Bottom left - fractional intensity distribution
• Bottom right - “corrected” fractional intensity distribution
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\[ \nabla^2 n(x, y) = \frac{1}{L} \frac{I_0 - I_d}{I_0} \]

- Top - Extracted refractive index distribution
- Bottom - Refractive index distribution taken from the literature


\[ \nabla^2 n(x, y) = \frac{1}{L} \frac{I_0 - I_d}{I_0} \nabla^2 n(x, y) = \frac{1}{L} \frac{I_0 - I_d}{I_0} \]

Laser system: EKSPLA SL312, 150 ps, 1064 nm, 250 mJ

imaging lens: f = 50 mm

L = 1.5 mm

Above: Gopal et al. experimental setup