Our approach: swept-angle scanning for direct-only imaging

- Robust to indirect illumination, and...
- With high lateral resolution.

Our aim: fast, full-field depth acquisition...

- Robustness to ambient light and other indirect illumination
- Depth range: 1 cm, depth resolution: 10 µm
- Depth range: 1 mm, depth resolution: 1 µm

Applications: inspecting airplane fuselage section

Feedback during precision fabrication

Alternative approaches:
- Conventional full-field laser interferometry
  - Sensitive to indirect illumination
  - 3x lower lateral resolution at equal scan time

Swept-Angle Synthetic Wavelength Interferometry

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