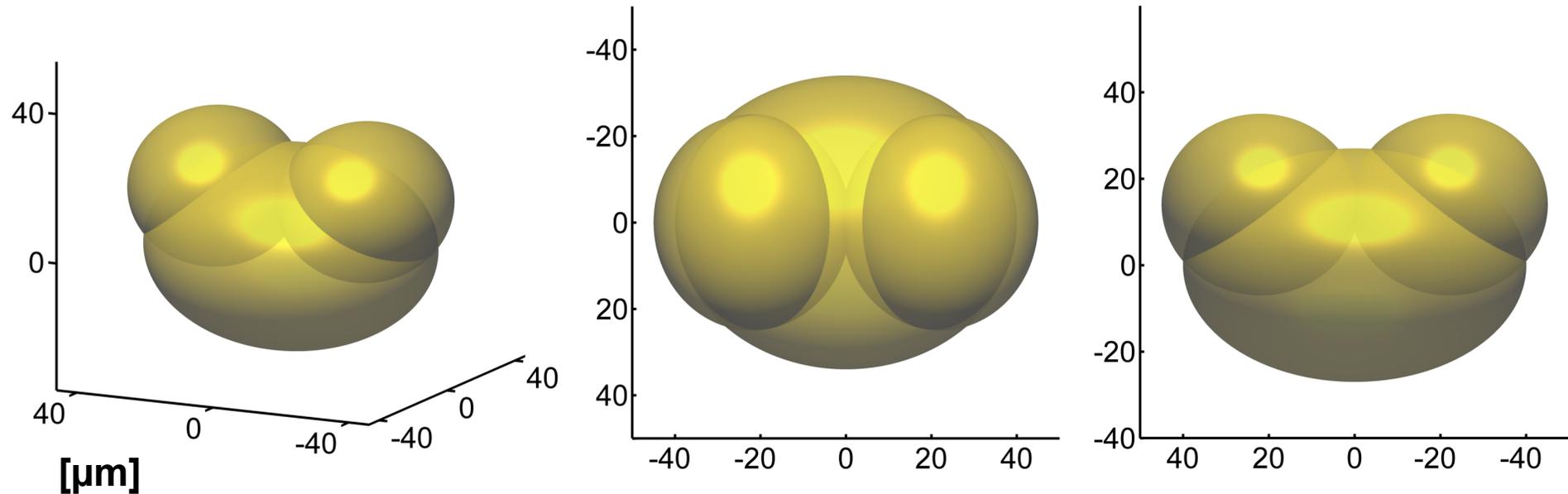


Fichtenpollenkorona

mittlere Pollenform (3-Ellipsoid-Modell) für Simulationen (Schrägansicht, Draufsicht, Frontansicht):



Fotos:

30.04.2018, 21:25:21 MESZ, Dresden (Mond)

30.04.2018, 16:35:43 MESZ, Dresden

30.04.2018, 19:10:27 MESZ, Dresden

h_S : Sonnenhöhe (bzw. Mondhöhe)

Streuungsparameter für Simulationen:

$$\sigma_{thet} = 5^\circ, \sigma_{ges} = 10 \%, \sigma_{einzel} = 7 \%$$

Farbbalance der Simulationen an Fotos angepasst, Helligkeit und Kontrast der Rot-minus-Grün-Bilder (R-G) ebenfalls

kein zusätzlicher Hintergrund addiert, bis auf Simulation zu Foto 1 (Mond)

h_s

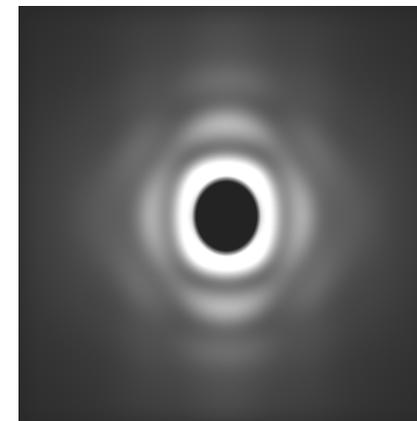
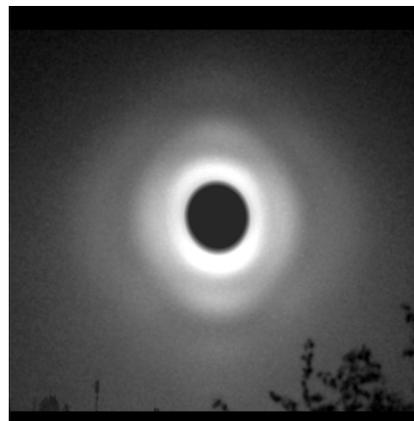
Foto

Simulation

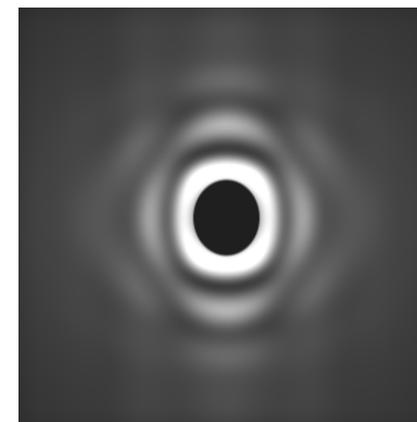
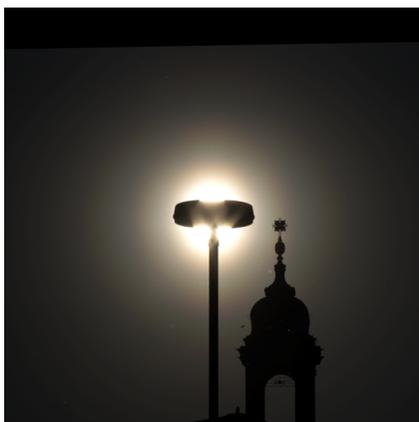
Foto R-G

Simu R-G

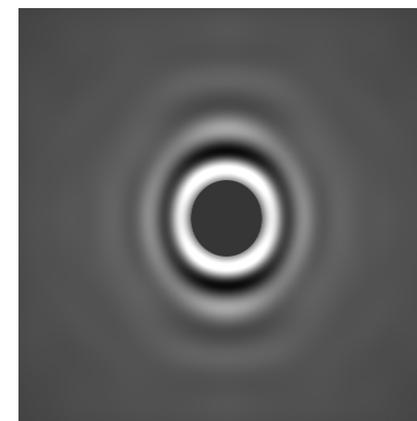
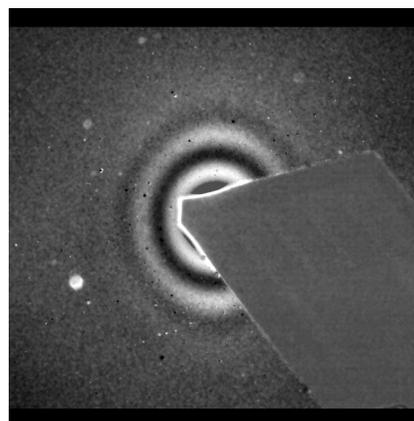
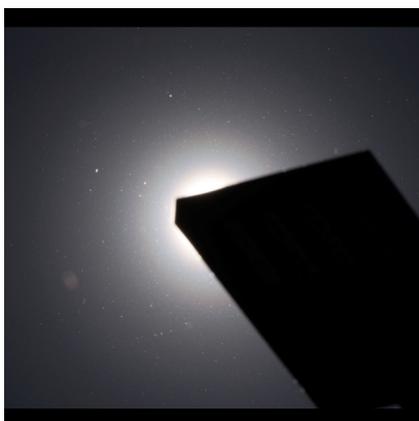
4.4°



10.4°

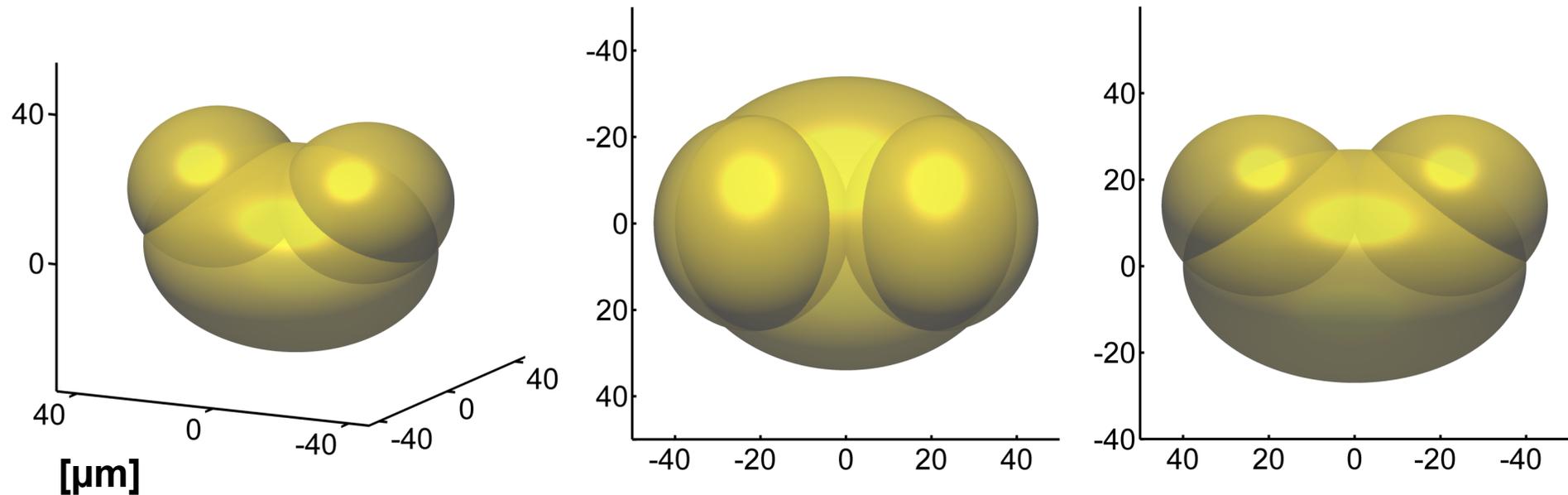


34.2°



Fichtenpollenkorona

mittlere Pollenform (3-Ellipsoid-Modell) für Simulationen (Schrägansicht, Draufsicht, Frontansicht):



Simulationsatlas:

- A: Echtfarbsimulation ohne Streuung (alle Pollen haben gleiche Größe und Form), Punktquelle
- B: Echtfarbsimulation mit Streuung ($\sigma_{thet} = 5^\circ$, $\sigma_{ges} = 10\%$, $\sigma_{einzel} = 7\%$), gefaltet mit Sonnenscheibe

gerechnet jeweils für Spektrum der hochstehenden Sonne

h_s

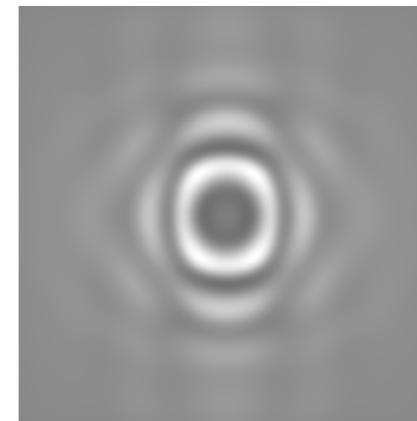
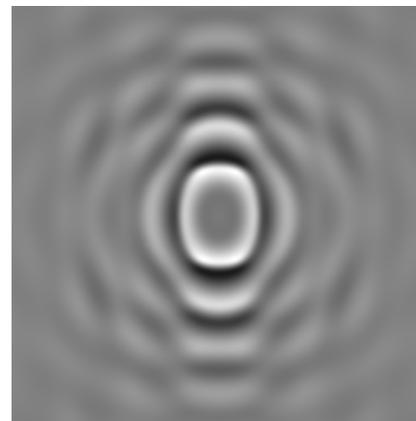
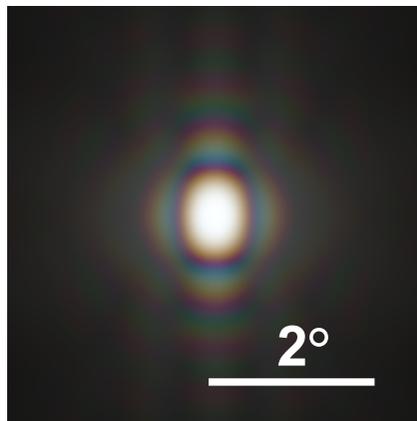
A

B

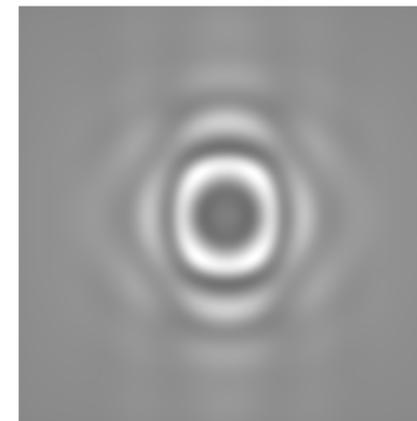
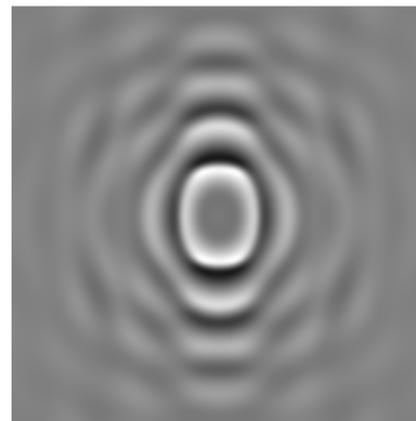
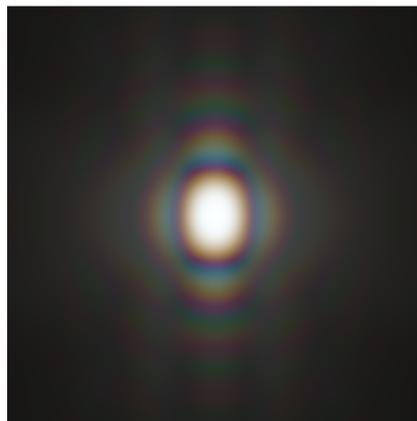
A, R-G

B, R-G

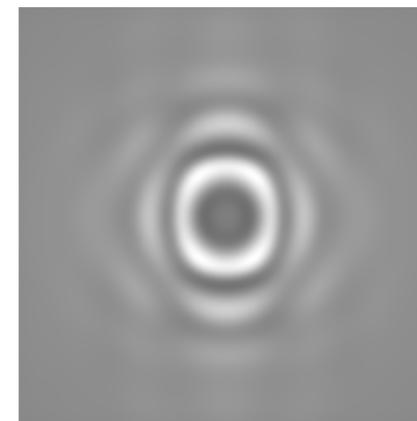
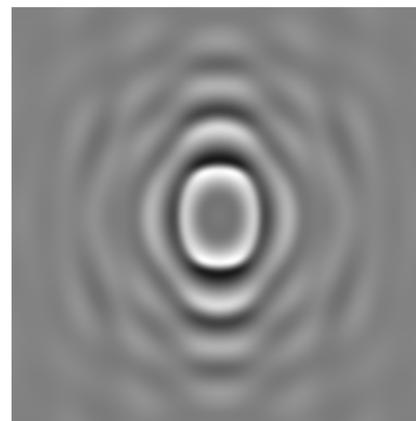
0°



5°



10°



h_s

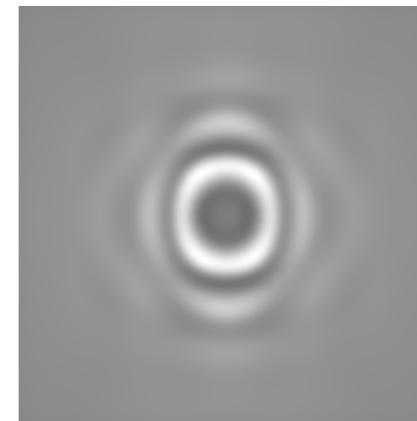
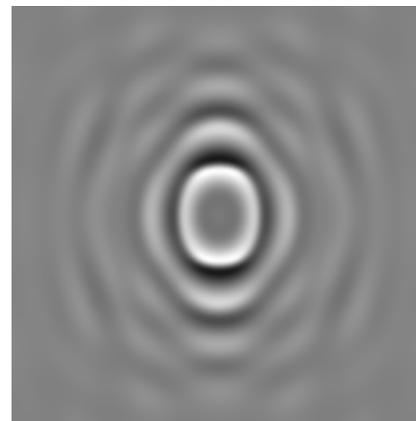
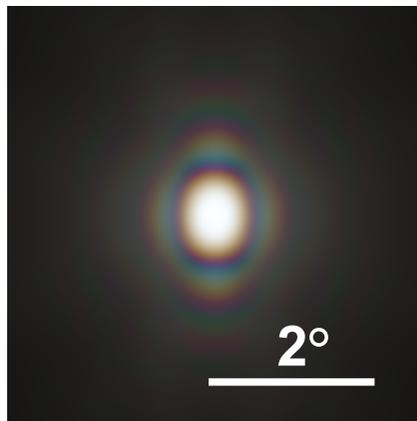
A

B

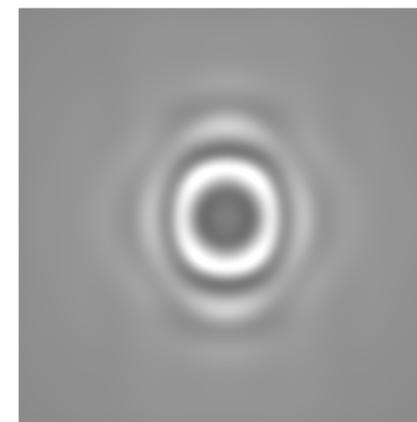
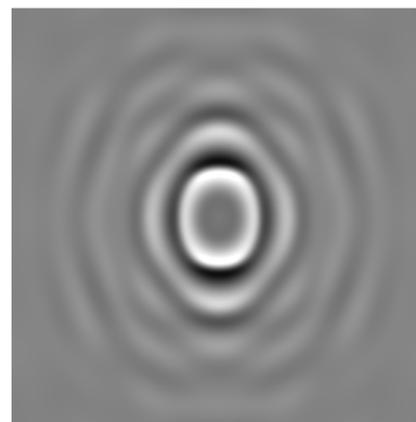
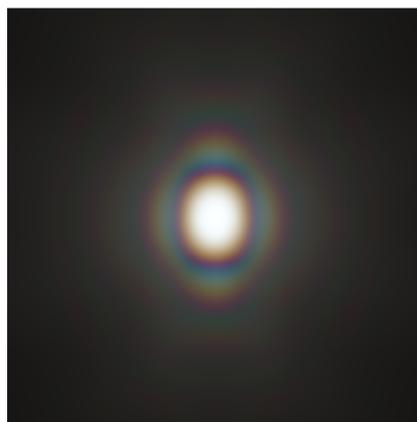
A, R-G

B, R-G

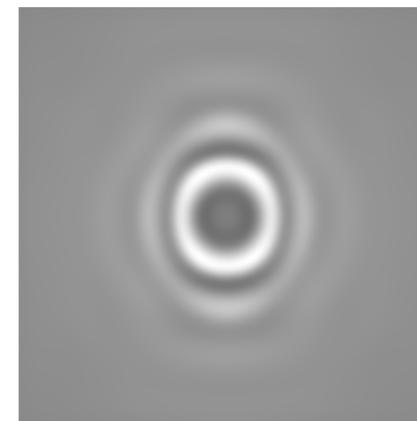
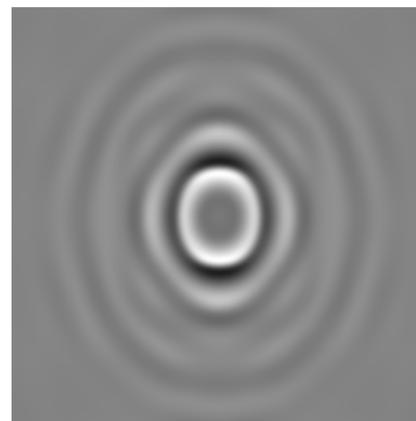
15°



20°



25°



h_s

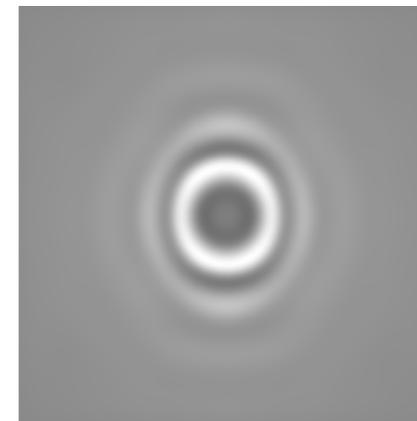
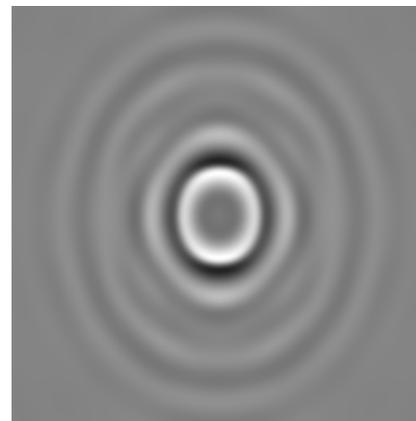
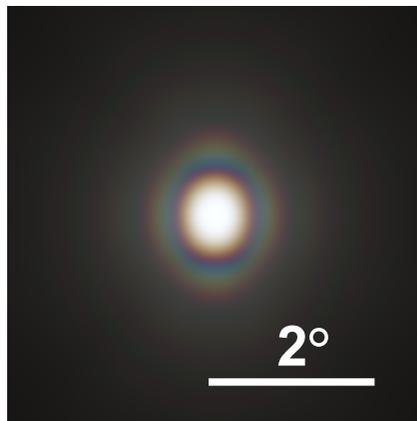
A

B

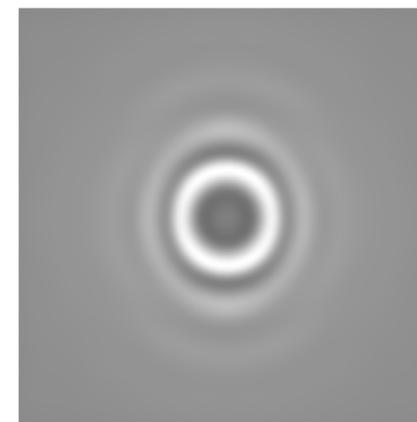
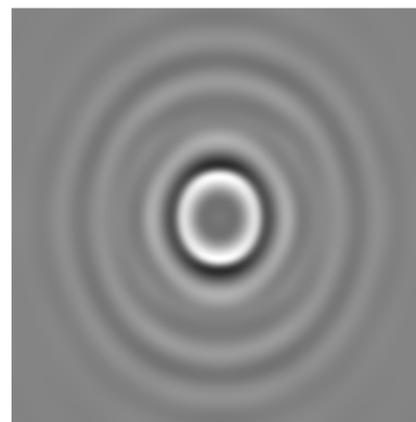
A, R-G

B, R-G

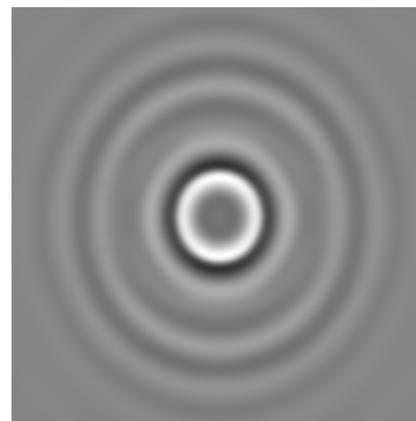
30°



40°



50°



h_s

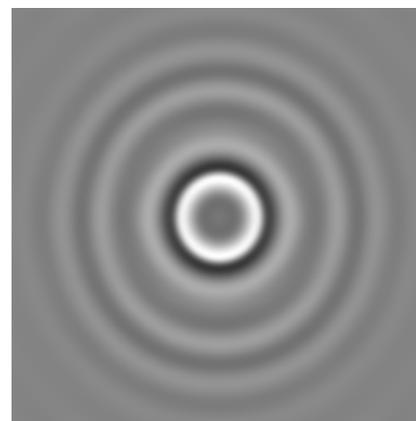
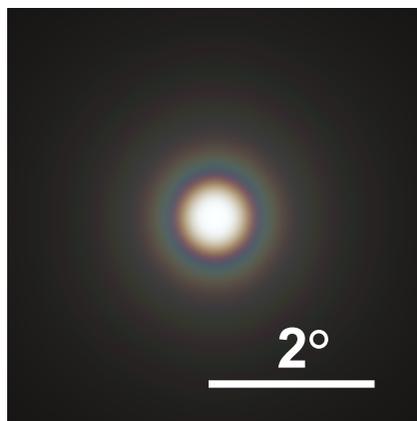
A

B

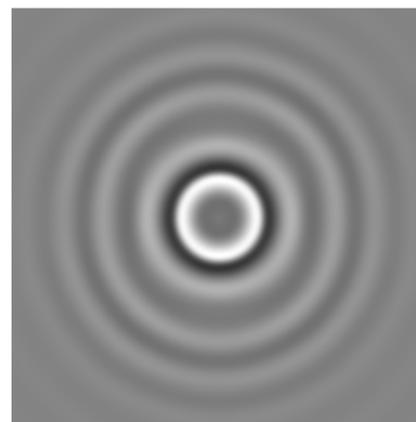
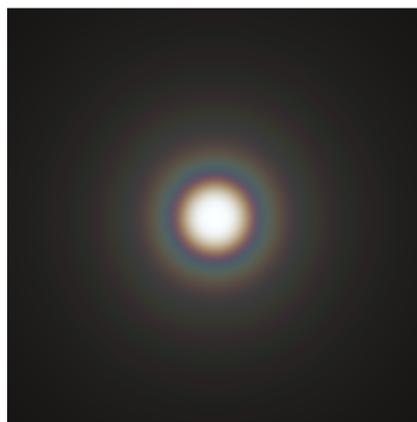
A, R-G

B, R-G

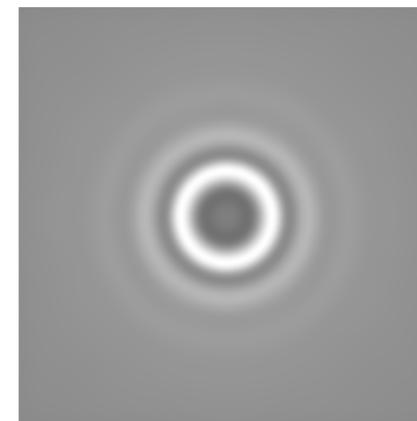
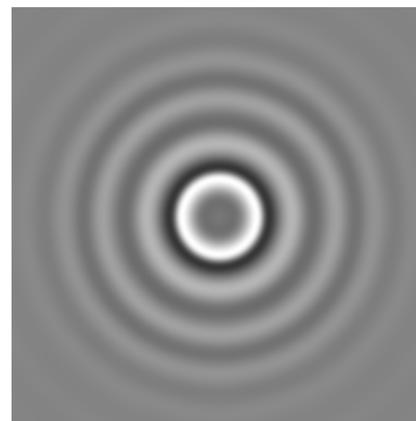
60°



70°

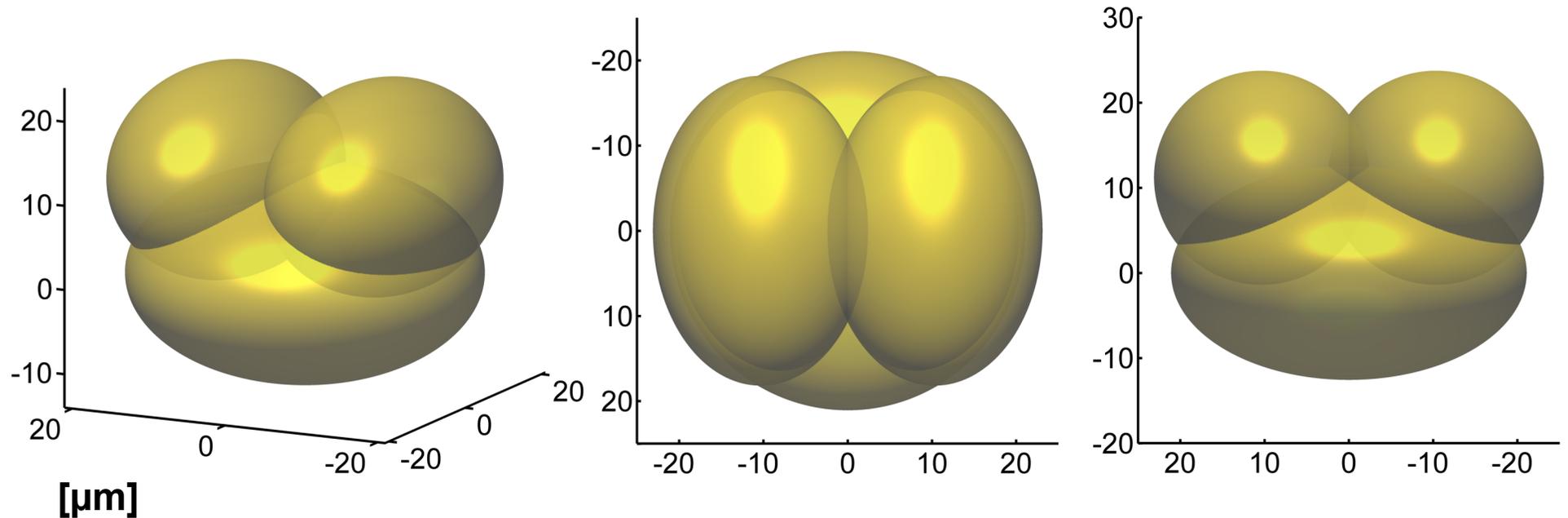


90°



Kiefernpollenkorona

mittlere Pollenform (3-Ellipsoid-Modell) für Simulationen (Schrägansicht, Draufsicht, Frontansicht):



Fotos:

- 06.05.2018, 20:17:12 MESZ, Hörlitz
- 06.05.2018, 19:56:36 MESZ, Hörlitz
- 07.05.2018, 18:58:07 MESZ, Dresden
- 05.05.2018, 18:33:46 MESZ, Hörlitz
- 06.05.2018, 17:03:35 MESZ, Hörlitz
- 05.05.2018, 13:40:18 MESZ, Hörlitz

Streuungsparameter für Simulationen:

$$\sigma_{thet} = 3^\circ, \sigma_{ges} = 7 \%, \sigma_{einzel} = 12 \%$$

Farbbalance der Simulationen an Fotos angepasst, Helligkeit und Kontrast der Rot-minus-Grün-Bilder (R-G) ebenfalls kein zusätzlicher Hintergrund addiert

h_s

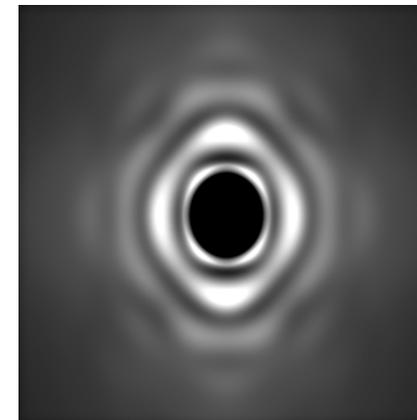
Foto

Simulation

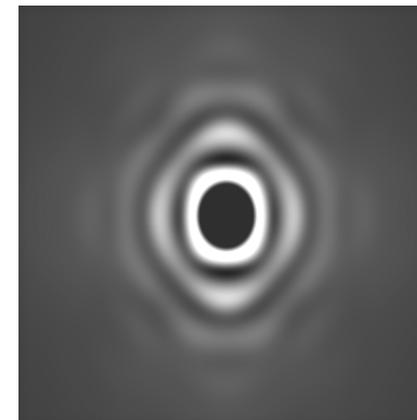
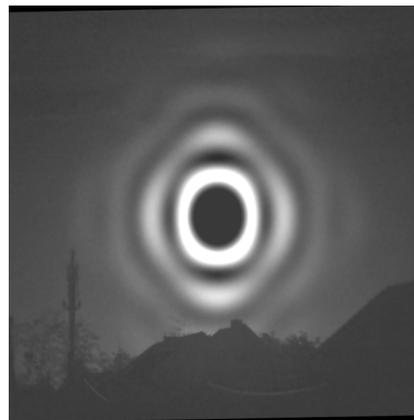
Foto R-G

Simu R-G

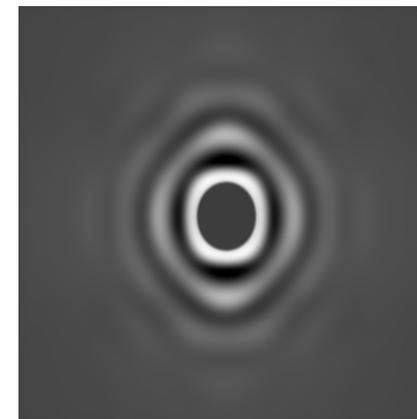
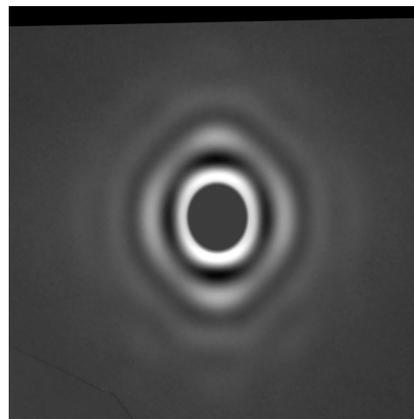
1.8°



4.6°



13.7°



h_s

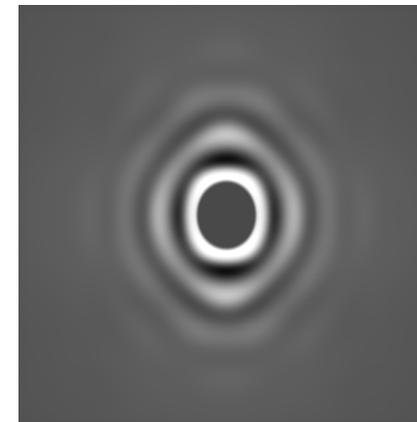
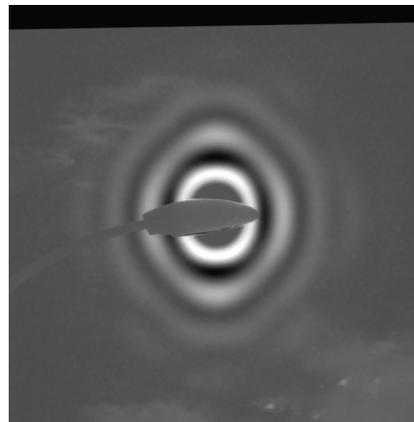
Foto

Simulation

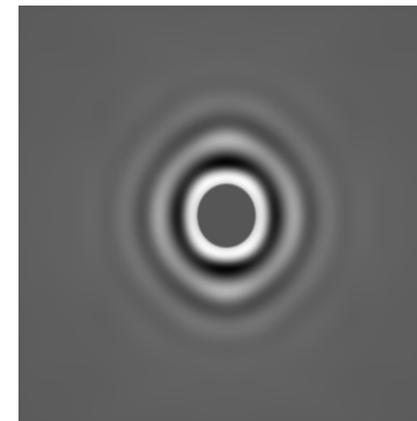
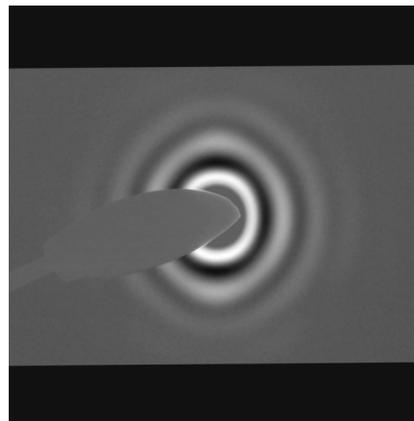
Foto R-G

Simu R-G

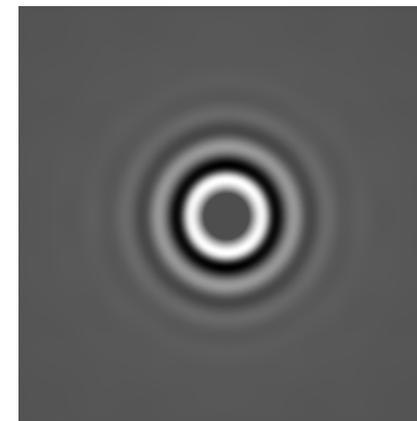
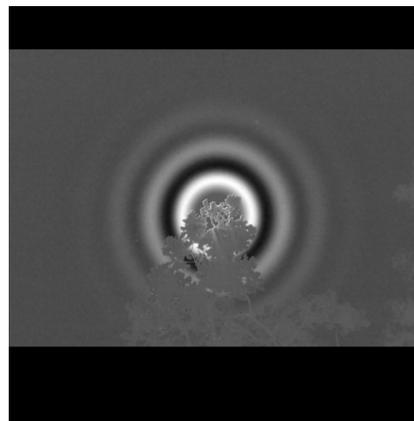
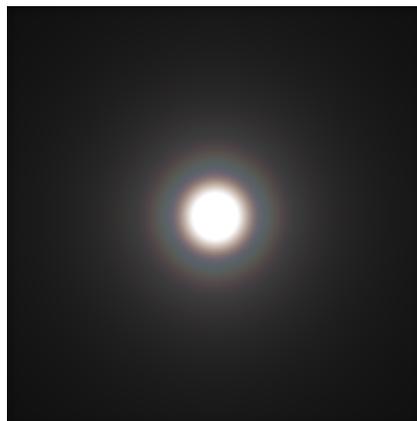
17.0°



31.1°

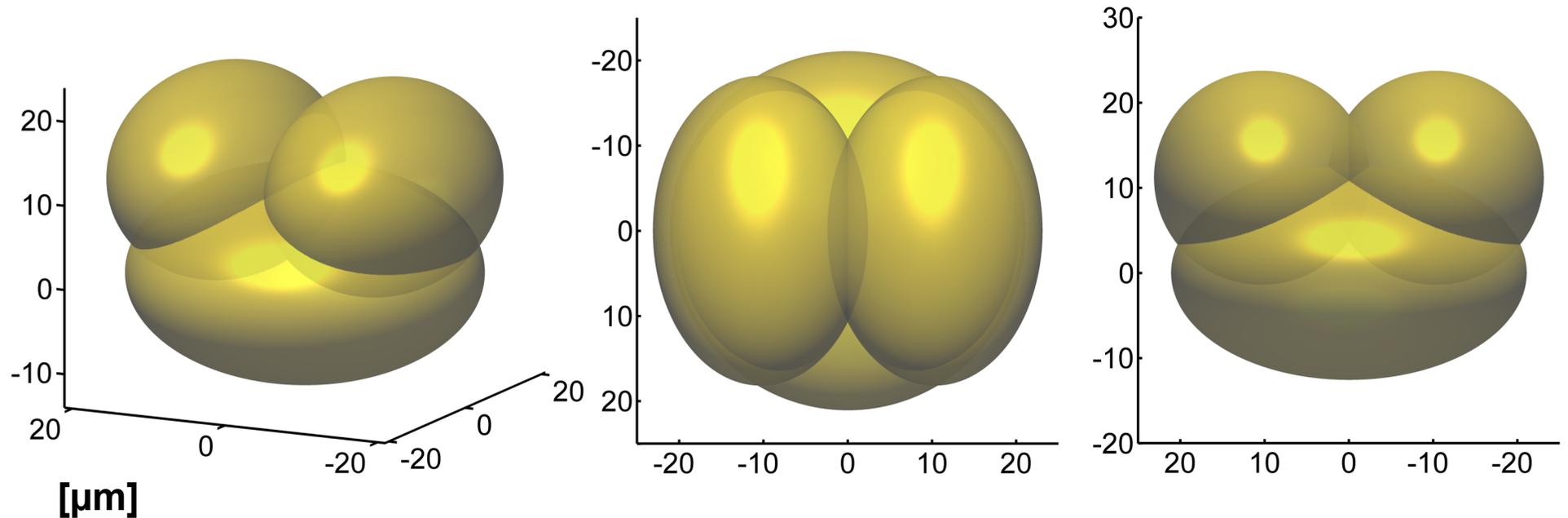


53.9°



Kiefernpollenkorona

mittlere Pollenform (3-Ellipsoid-Modell) für Simulationen (Schrägansicht, Draufsicht, Frontansicht):



Simulationsatlas:

- A: Echtfarbsimulation ohne Streuung (alle Pollen haben gleiche Größe und Form), Punktquelle
- B: Echtfarbsimulation mit Streuung ($\sigma_{thet} = 3^\circ$, $\sigma_{ges} = 7\%$, $\sigma_{einzel} = 12\%$), gefaltet mit Sonnenscheibe

gerechnet jeweils für Spektrum der hochstehenden Sonne

h_s

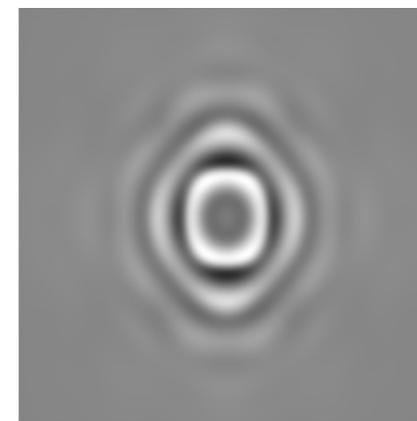
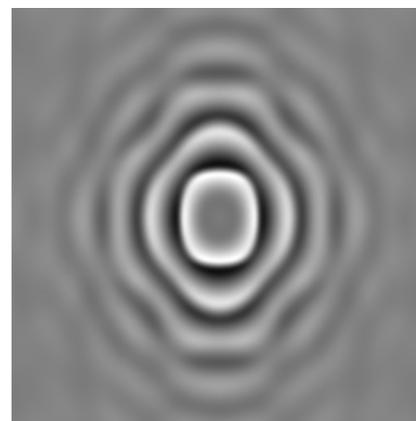
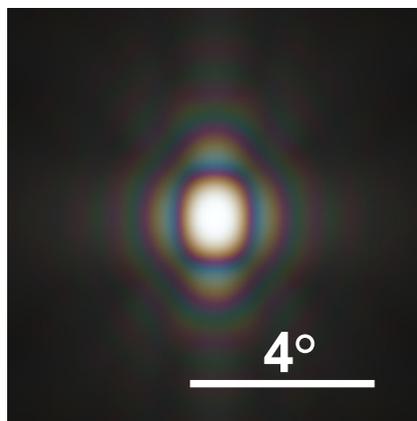
A

B

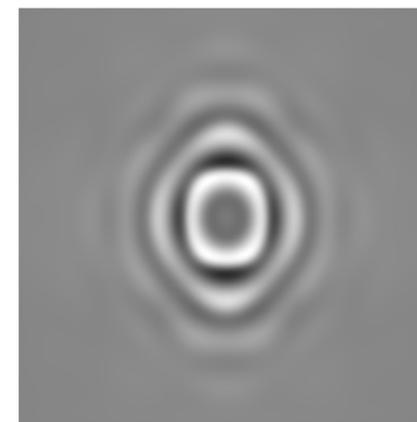
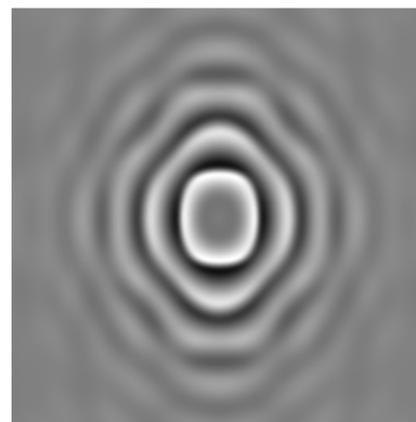
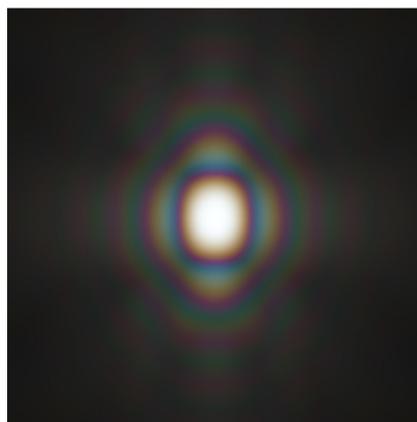
A, R-G

B, R-G

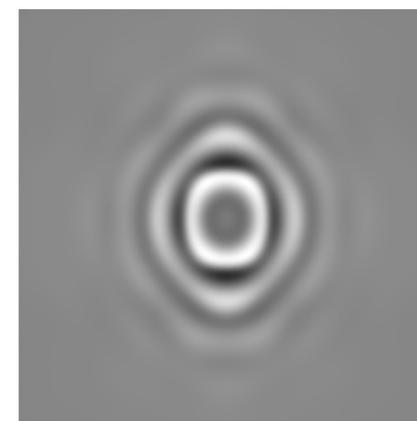
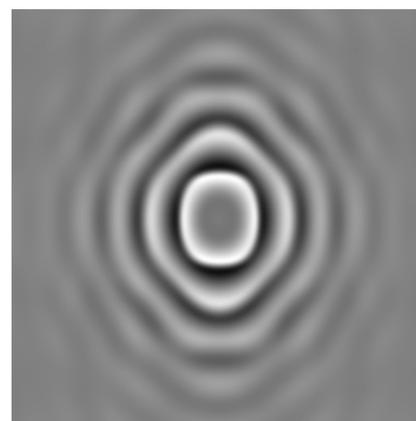
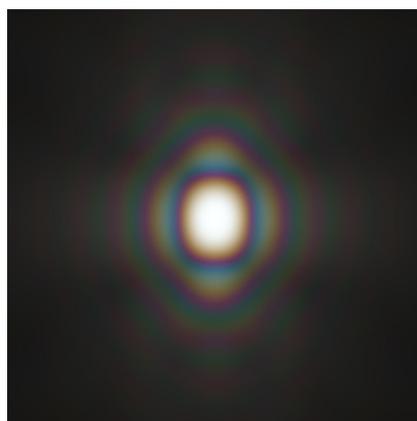
0°



5°



10°



h_s

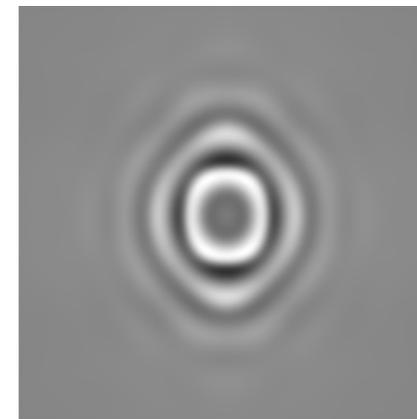
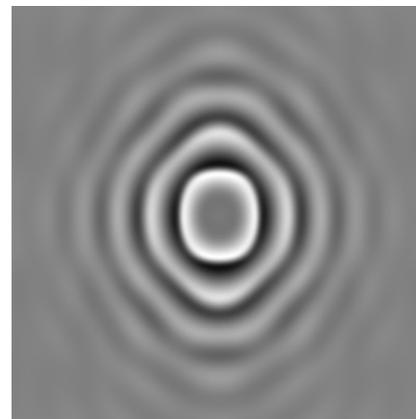
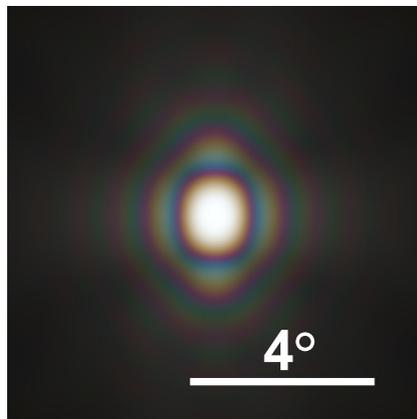
A

B

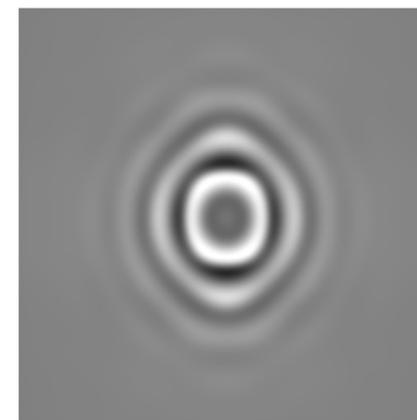
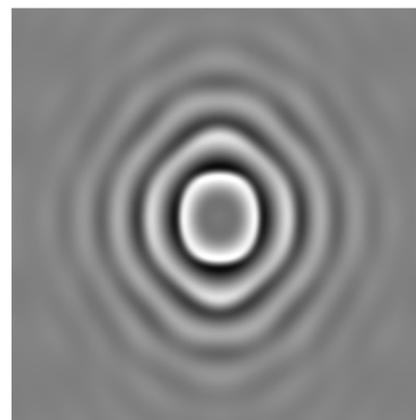
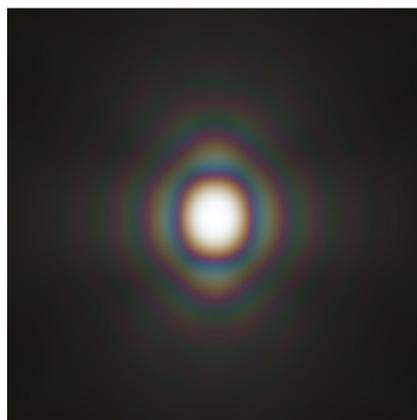
A, R-G

B, R-G

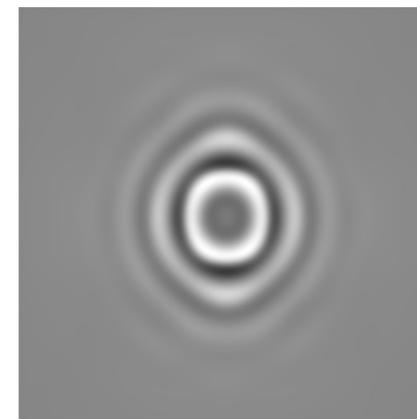
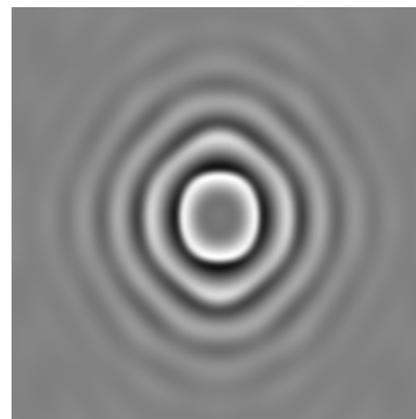
15°



20°



25°



h_s

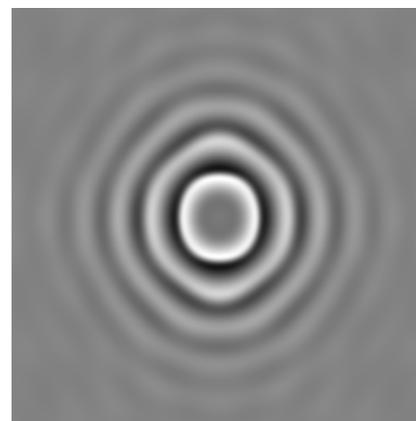
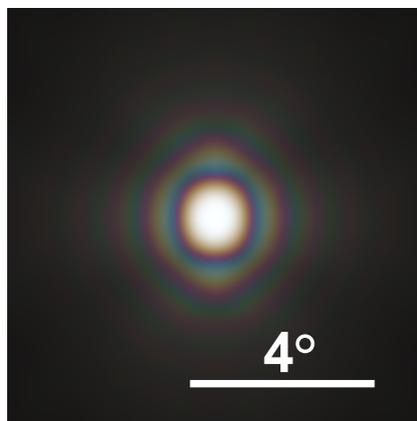
A

B

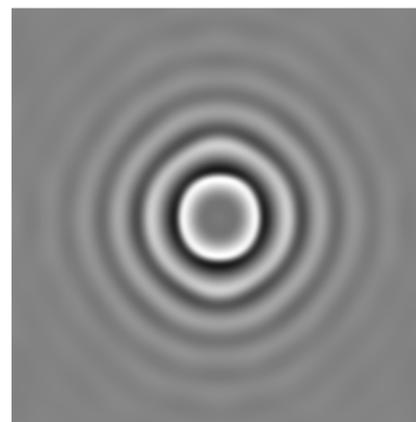
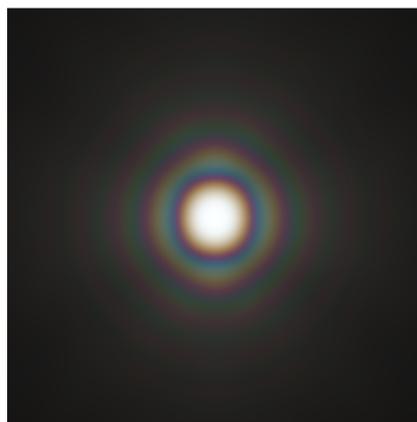
A, R-G

B, R-G

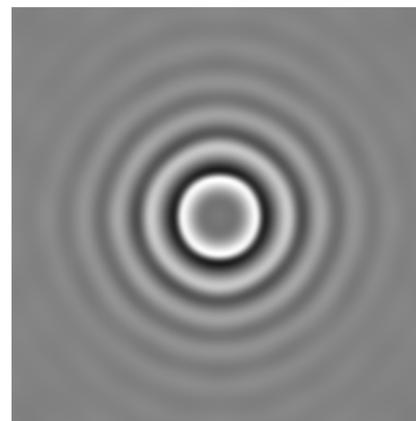
30°



40°



50°



h_s

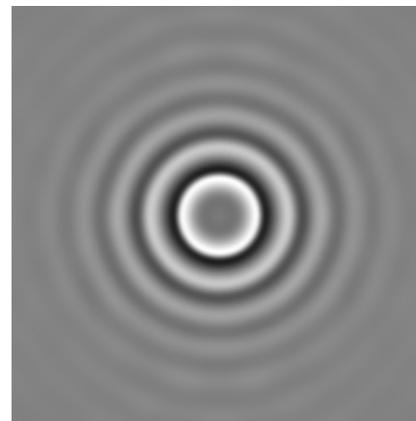
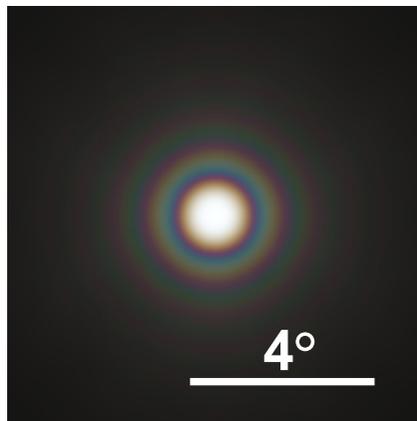
A

B

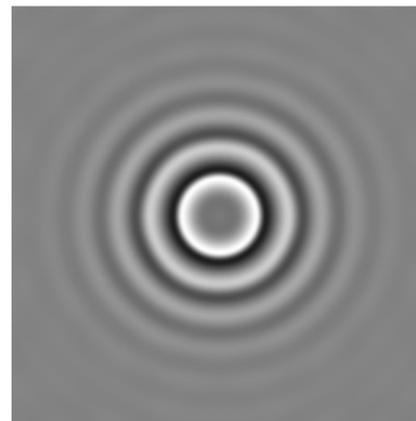
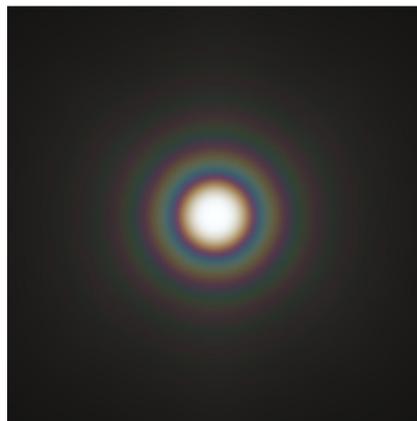
A, R-G

B, R-G

60°



70°



90°

