Mortensen Simulations, $\theta=0^{\circ}$ - 0.100 Gaussian Gaussian - 160 0.075 20 20 140 15 15 0.050 Perpendicular error ($\Delta \perp$), nm Perpendicular error ($\Delta \perp$), nm 10 10 120 0.025 5 5 - 80 Phi error 0.000 -5 **-**5 -0.025 60 -10 -10 -0.050-15 -15 40 -20 **-**20 -0.07520 0 10 -1010 -20 -10-20 0 Parallel error ($\Delta \parallel$), nm Parallel error ($\Delta \parallel$), nm -0.1000 20.0 Hinterer Hinterer - 160 20 20 17.5 15 15 140 Perpendicular error ($\Delta \perp$), nm 15.0 Perpendicular error ($\Delta \perp$), nm 10 10 120 5 5 12.5 10.0 Theta error - 100 eror 0 0 80 **-**5 **-**5 7.5 60 -10 -10 -15 -1540 5.0 -20 -20 · 20 0 10 10 -20 -20 0 2.5 Parallel error ($\Delta \parallel$), nm Parallel error ($\Delta \parallel$), nm Mortensen Mortensen 160 20 20 140 15 15 error ($\Delta \perp$), nm error ($\Delta \perp$), nm 10 10 120 5 5 4 Para - 100 J 0 0 ω Theta Perpendicular Perpendicular 80 문 **-**5 **-**5 60 -10 -10 - 2

-15

1

10

-20 + -20

-10

0

Parallel error ($\Delta \parallel$), nm

40

20

10

-15

-20 + -20

-10

0

Parallel error (Δ ||), nm