Modern Observational/Instrumentation Techniques
Astronomy 500

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Spherical Aberration
\[ \Delta W = W_{040} \rho^4 \]

Coma
\[ \Delta W = W_{131} \rho^3 \cos \theta \]
Astigmatism

Curvature of Field

\[ \Delta W = W_{222} x_0^2 \rho^2 \cos^2 \theta \]

Astigmatism

Field Curvature
Distortion

\[ \Delta W = W_{311} x_0^3 \rho \cos \theta \]

Axial Chromatic Aberration

Figure 3