

Re: Incorrect Seidel aberration calculations in lens design codes

Source: <http://sci.tech-archive.net/Archive/sci.optics/2008-02/msg00118.html>

- *From:* Helpful person <rrlff@xxxxxxxx>
 - *Date:* Fri, 22 Feb 2008 10:15:38 -0800 (PST)
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On Feb 22, 11:28 am, Al Greynolds <awgreyno...@xxxxxxxxxxxxxxxx> wrote:

On Feb 22, 8:59 am, Helpful person <rrl...@xxxxxxxx> wrote:

I need to think about this. However, 2nd order is a defocus term and hence not part of the Seidel approximation. Are not Seidels by definition limited to spherical surfaces?– Hide quoted text –

Seidels are basically 4th order wavefront (3rd order ray) aberrations. Therefore, the contributions from a symmetric surface (sphere or asphere) should include ALL 2nd and 4th order terms in the series expansion of surface's sag.

Al

But the 2nd order is not an aberration.

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