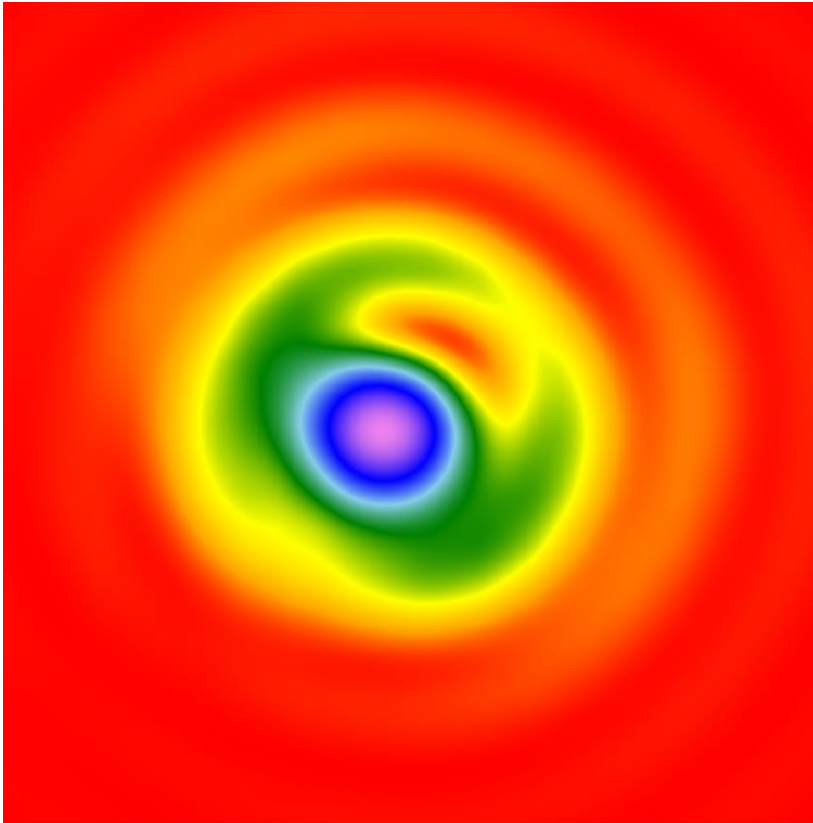


Herrig Schiefspiegler Telescope

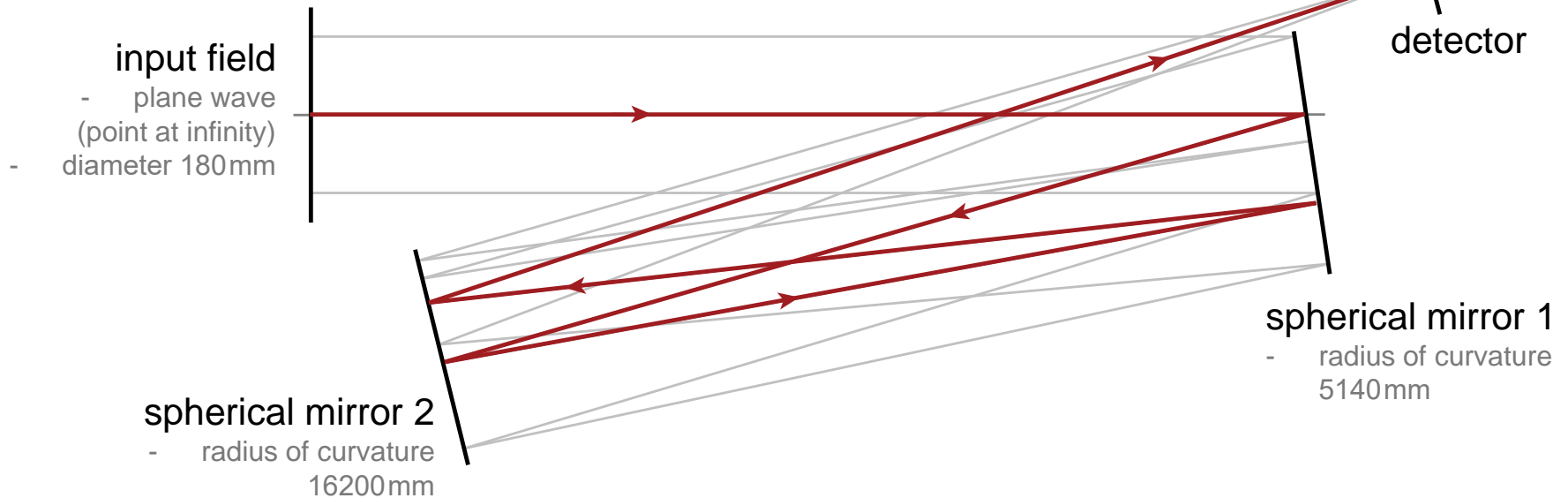
Abstract



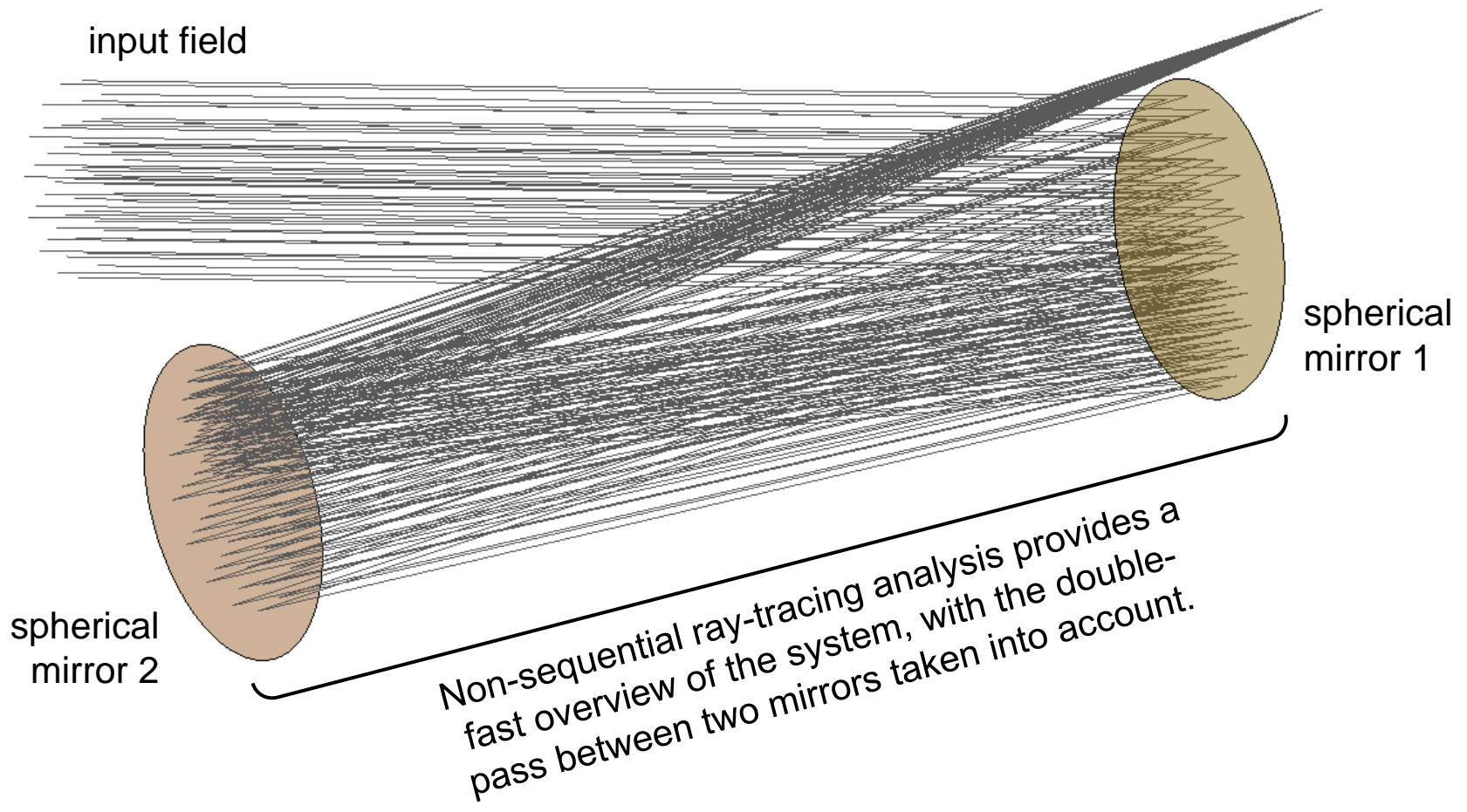
A Herrig Schiefspiegler telescope consists of two spherical mirrors usually with large radii, but with four reflections in a double-pass configuration, which makes the telescope setup very compact. With the non-sequential ray and field tracing techniques in VirtualLab, a Herrig Schiefspiegler telescope is modeled, with the multiple passes between two mirrors fully taken into account, and the image quality is investigated with respect to different incident angles.

Modeling Task

How to calculate the point spread function (PSF) at the detector plane, taking the double-pass in the telescope into consideration?

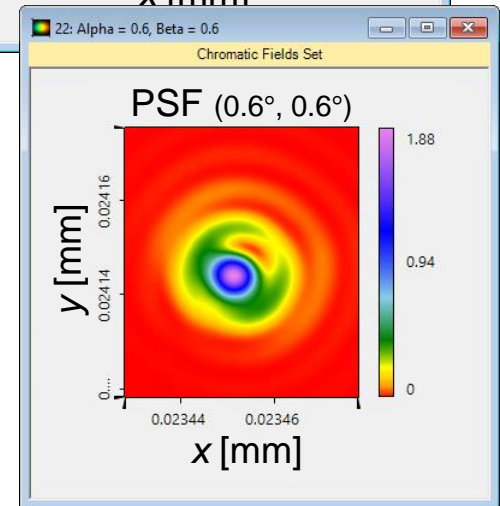
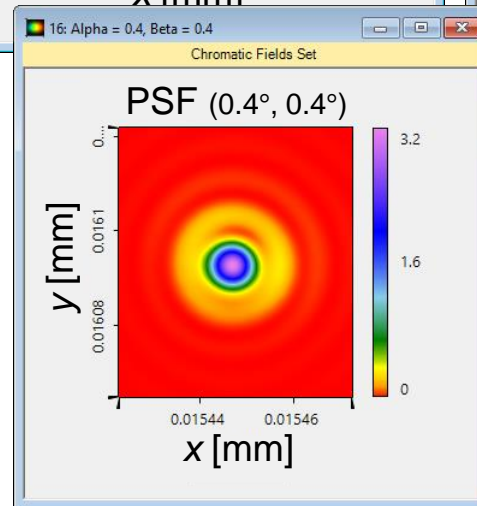
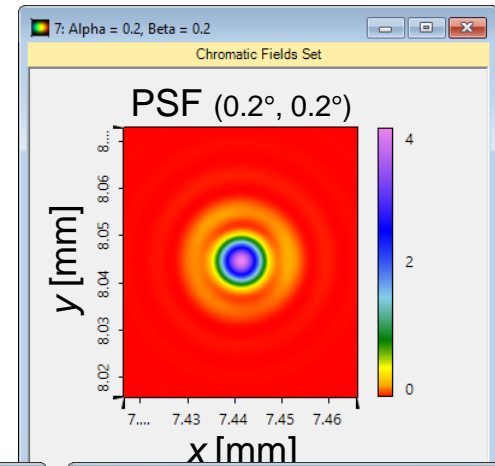
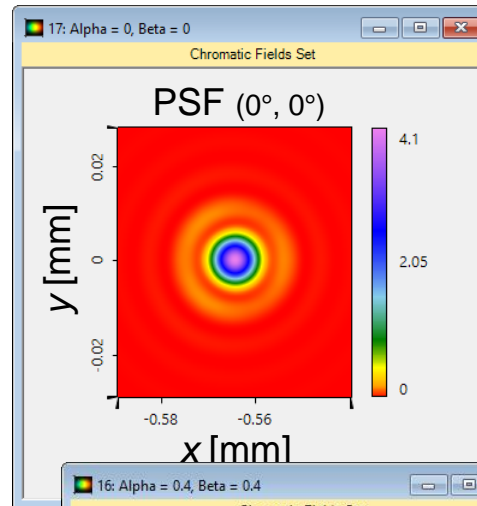
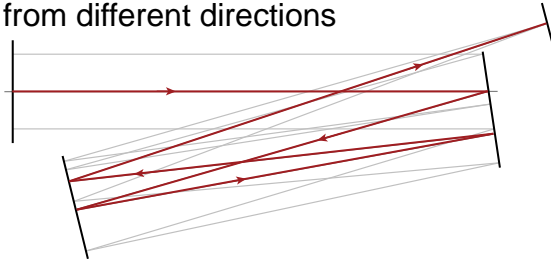


Results



Results

input field
from different directions



Non-sequential field tracing for
the PSF calculation, including
double-pass between two mirrors,
takes less than 10 seconds

Document Information

title	Herrig Schiefspiegler Telescope
version	1.0
VL version used for simulations	7.3.0.41 (Non-sequential Extension)
category	Application Use Case
