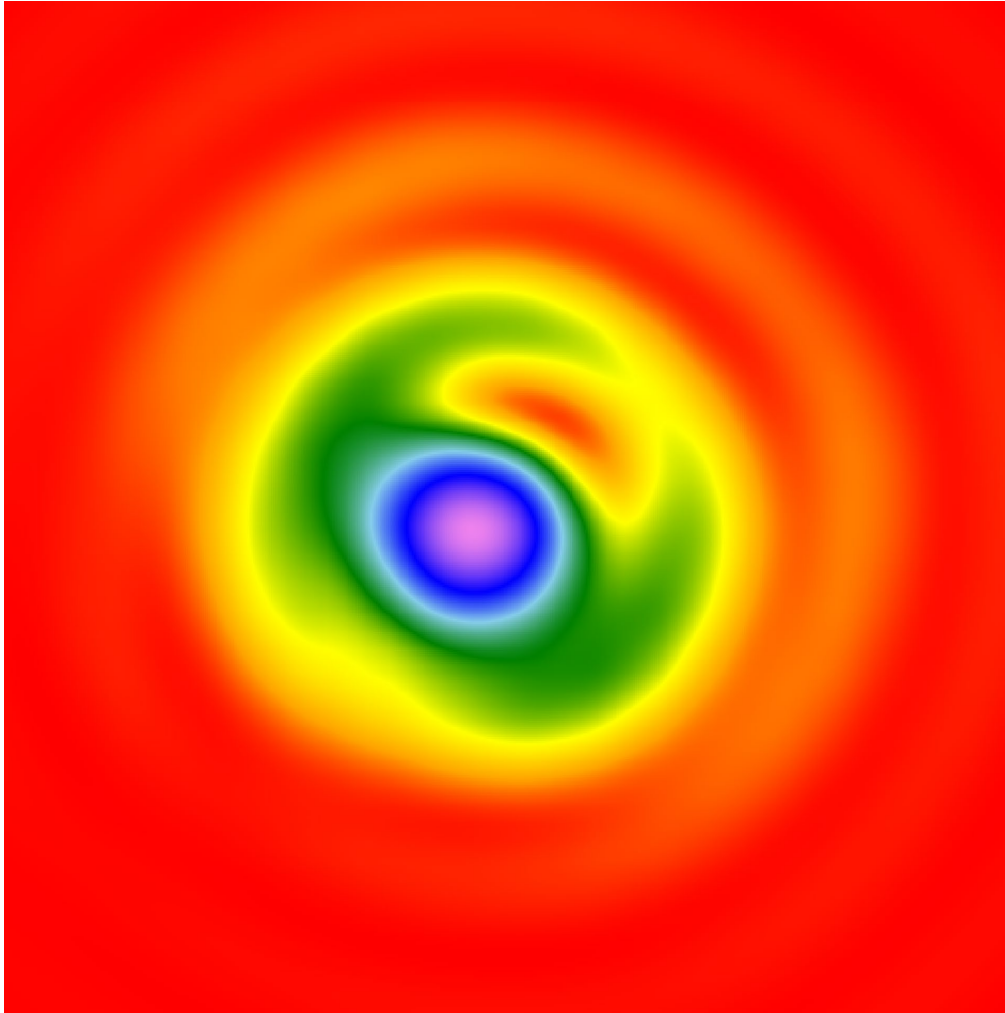


# Herrig Schiefspiegler Telescope

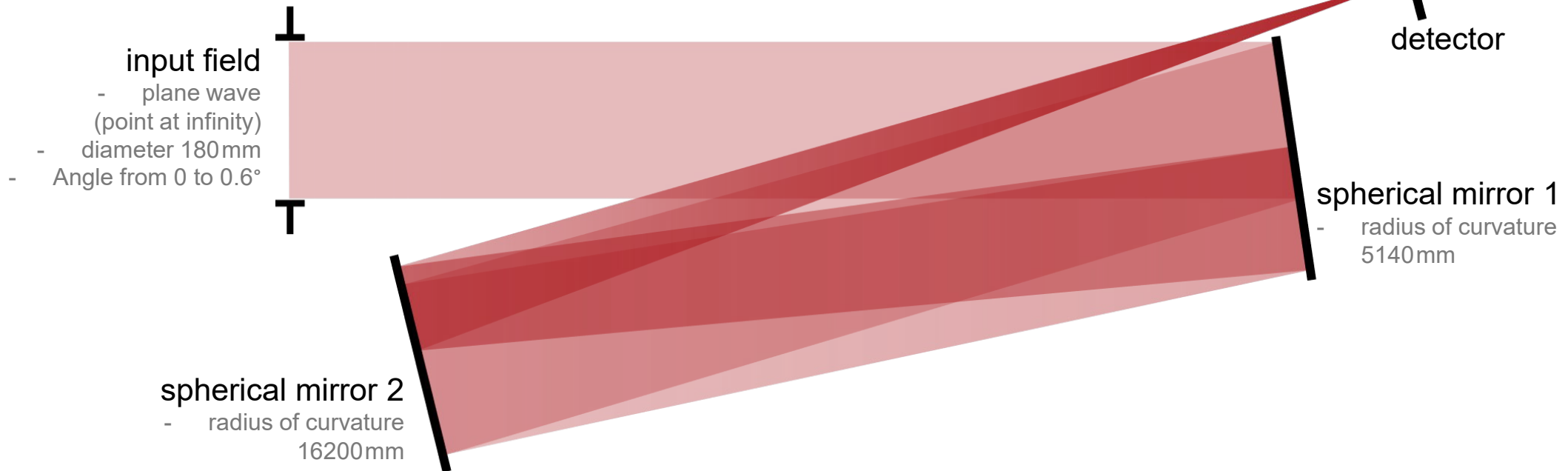
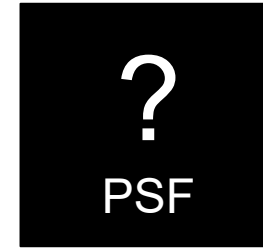
# Abstract



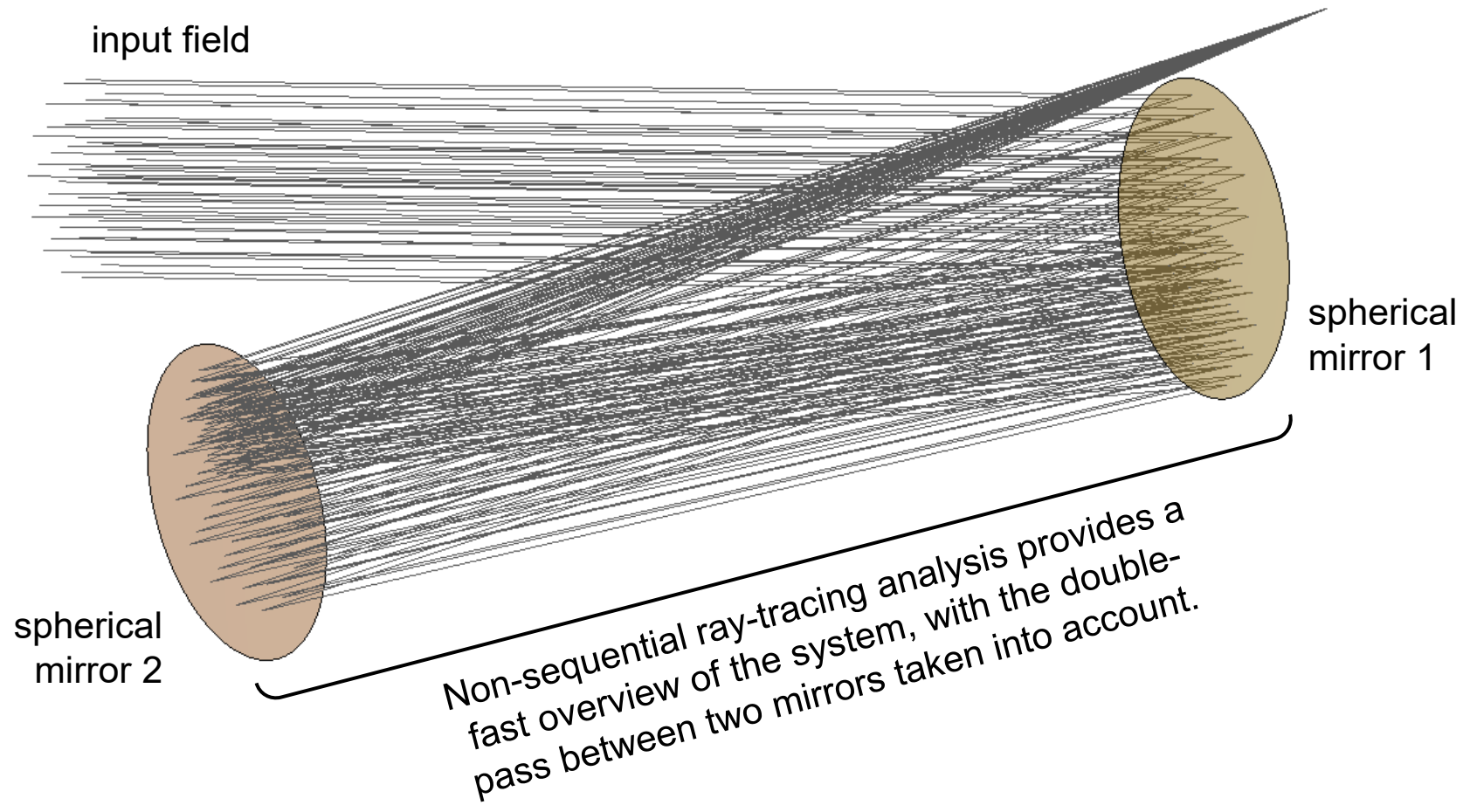
A Herrig Schiefspiegler telescope consists of two spherical mirrors usually with large radii, but with four reflections in a double-pass configuration, which makes the telescope setup very compact. With the non-sequential ray and field tracing techniques in VirtualLab Fusion, a Herrig Schiefspiegler 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

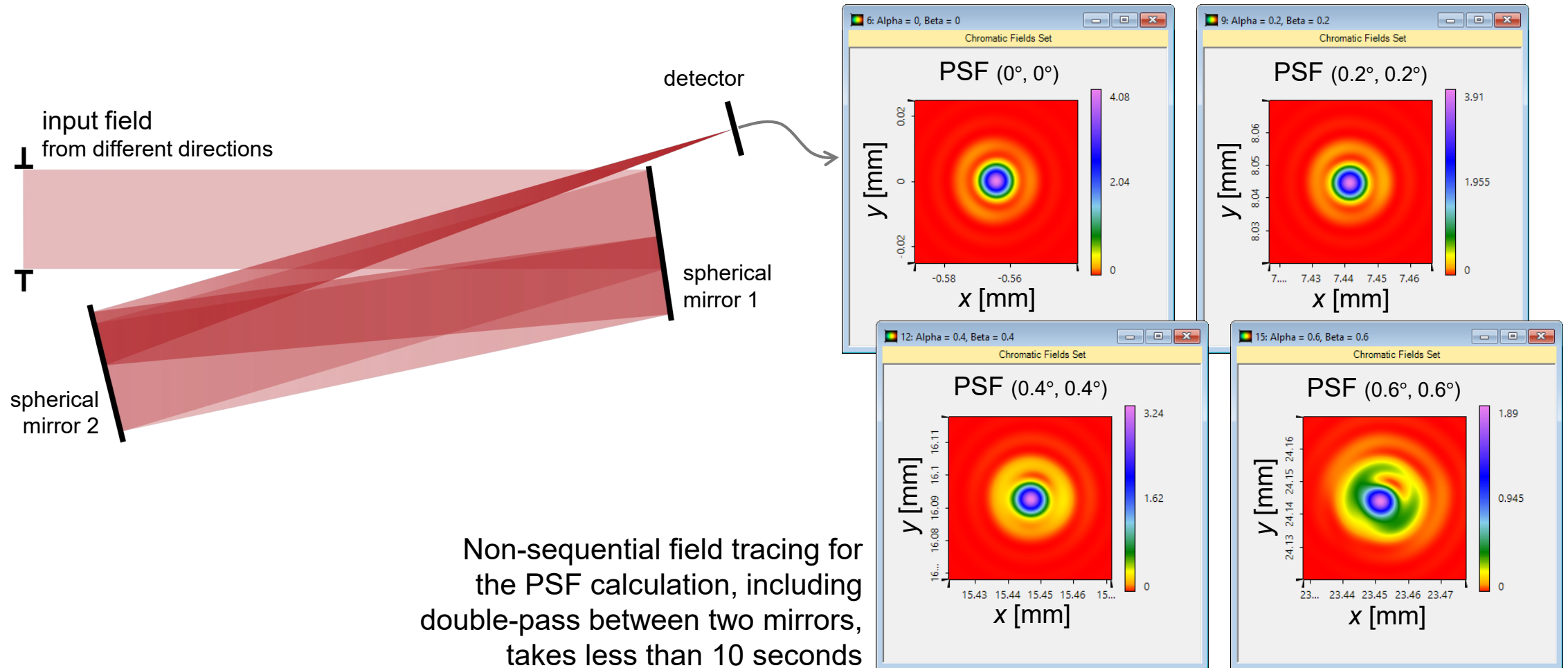
How to calculate the point spread function (PSF) at the detector plane, taking the double-pass in the telescope into consideration?



# Non-Sequential Ray Tracing



# PSF Calculation at Detector Plane



# Document Information

title	Herrig Schiefspiegler Telescope
document code	MISC.0053
version	1.1
toolbox(es)	Starter Toolbox (Non-Sequential Extension)
VL version used for simulations	7.4.0.49
category	Application Use Case
further reading	<ul style="list-style-type: none"><li>- Advanced PSF Calculation in a High-NA Lens System</li><li>- Non-Sequential Configuration: How to Use Simulation Settings for Ray and Field Tracing</li></ul>