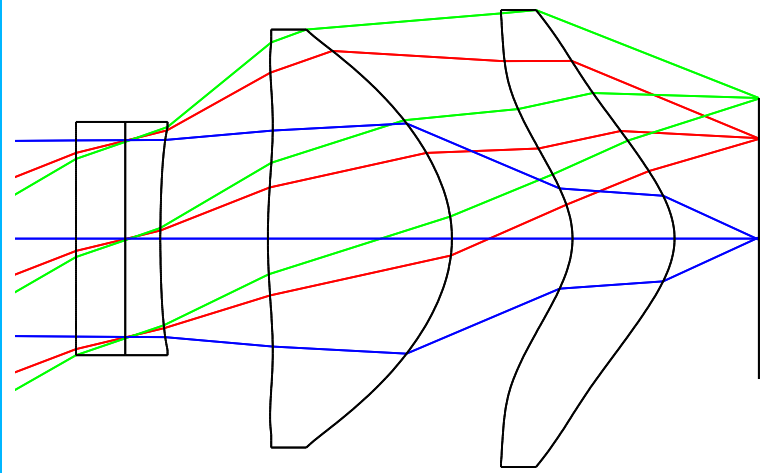


# OPTICAL DESIGN & SIMULATION

We develop powerful ray-optical and wave-optical designs to reach your most demanding specifications



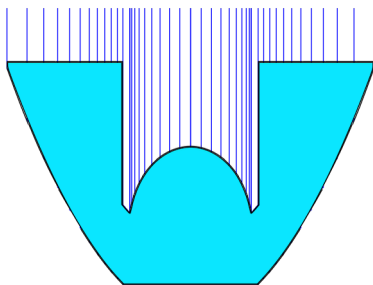
## Utilizing all modes of light manipulation

We design complex systems leveraging refraction, diffraction, reflection, absorption, polarization or, combinations of them in hybrid optical systems.

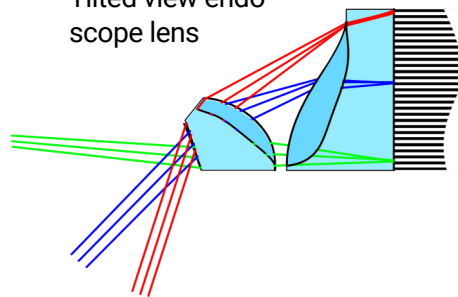
## Using the correct methods for the problem

- sequential or non-sequential ray-tracing.
- angular spectrum propagation.
- scalar 3D wave propagation.
- rigorous simulation (FDTD, FEM).

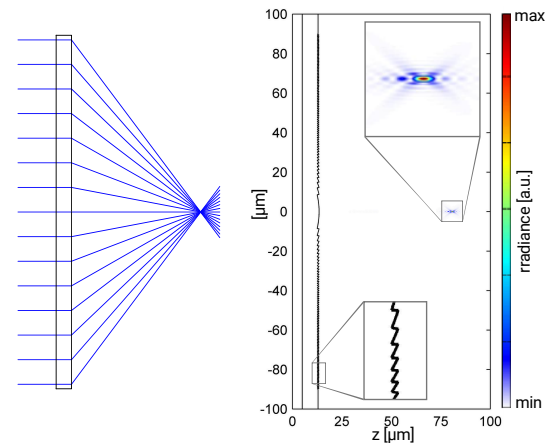
TIR concentrator



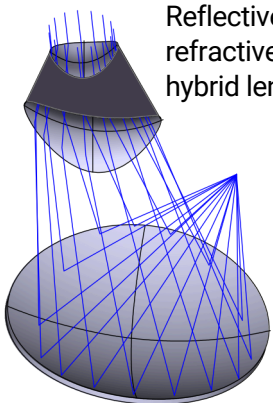
Tilted view endoscope lens



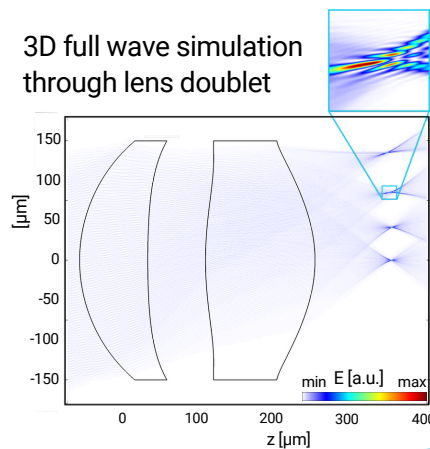
Flat lens / metalens



Reflective-refractive hybrid lens



3D full wave simulation through lens doublet



Fresnel-TIR hybrid lens

