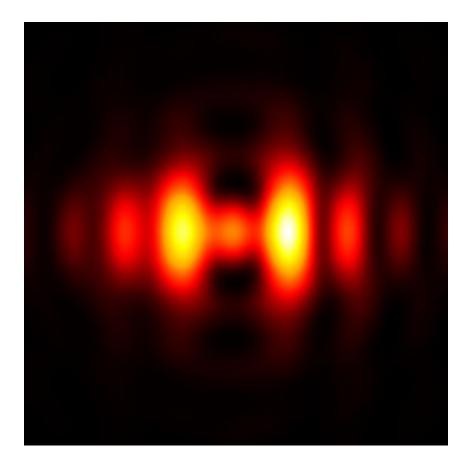


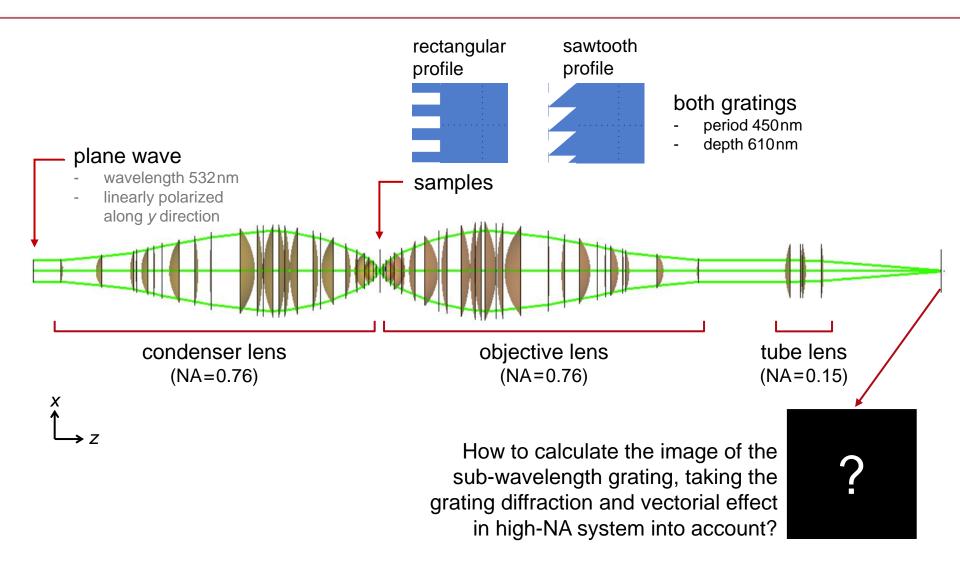
# Imaging of Sub-Wavelength Gratings with Different Profiles

#### Abstract

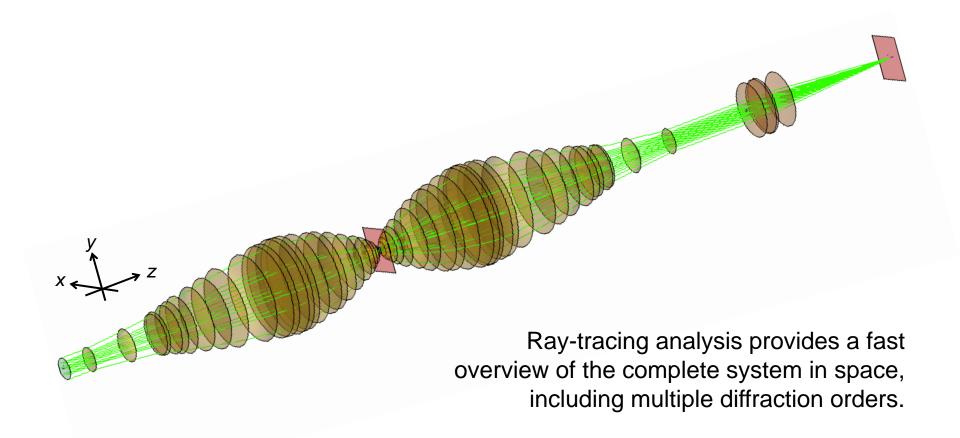


Sub-wavelength gratings, when illuminated with paraxial light, generate only one diffraction order, and therefore no image is formed in this situation. To overcome it, nonparaxial illumination can be used. As in this example, a high-NA condenser lens is employed to provide a highly focused illumination for gratings with different profiles, and the diffracted field is to be collected by another high-NA objective. VirtualLab enables simulation of such an imaging process, including rigorous simulation of sub-wavelength gratings with Fourier modal method.

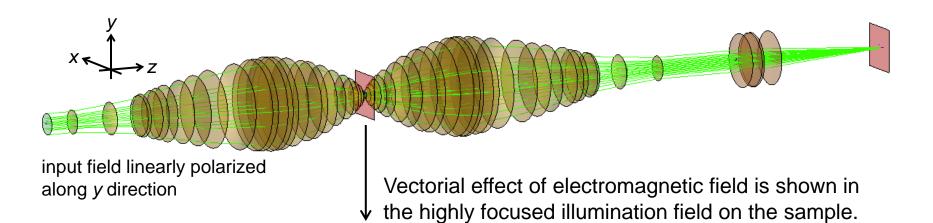
## **Modeling Task**

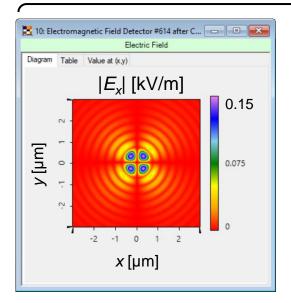


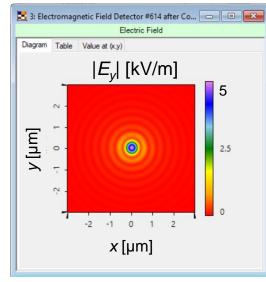
#### **Results**

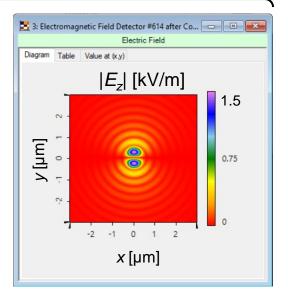


#### **Results**

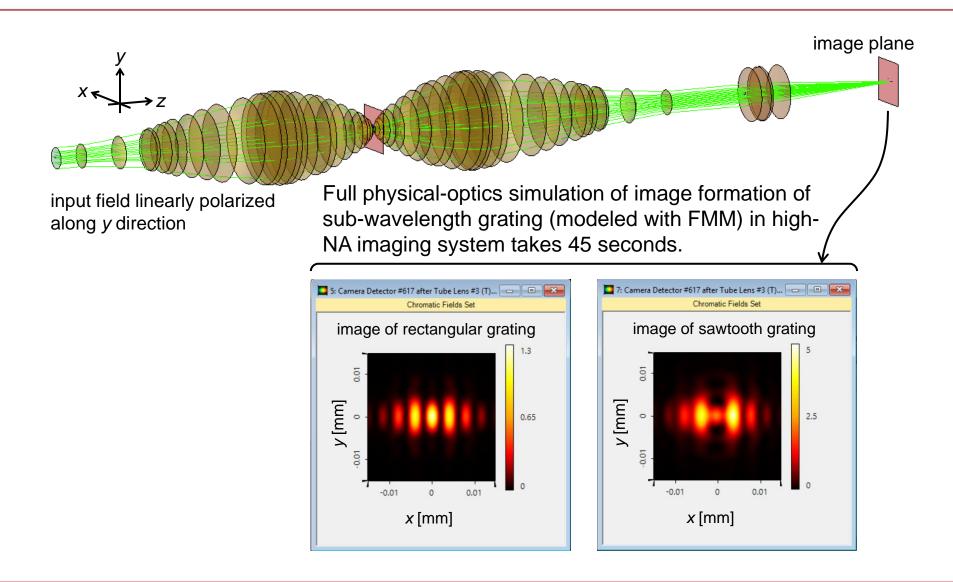








#### **Results**



### **Document Information**

title	Imaging of Sub-Wavelength Gratings with Different Profiles
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category	Application Use Case