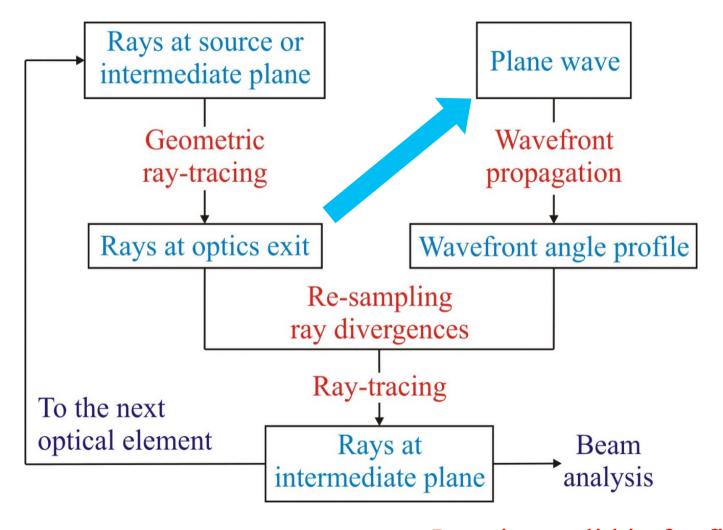
### **OASYS-ShadowOui-Hybrid**

Xianbo Shi

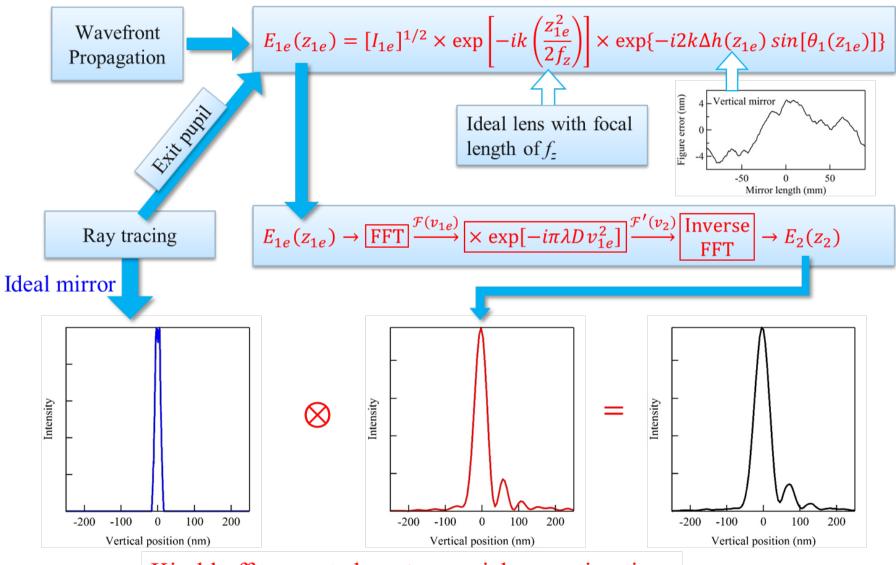
# Hybrid method: combining ray-tracing and wavefront propagation





Iterative, valid in far-field approxima

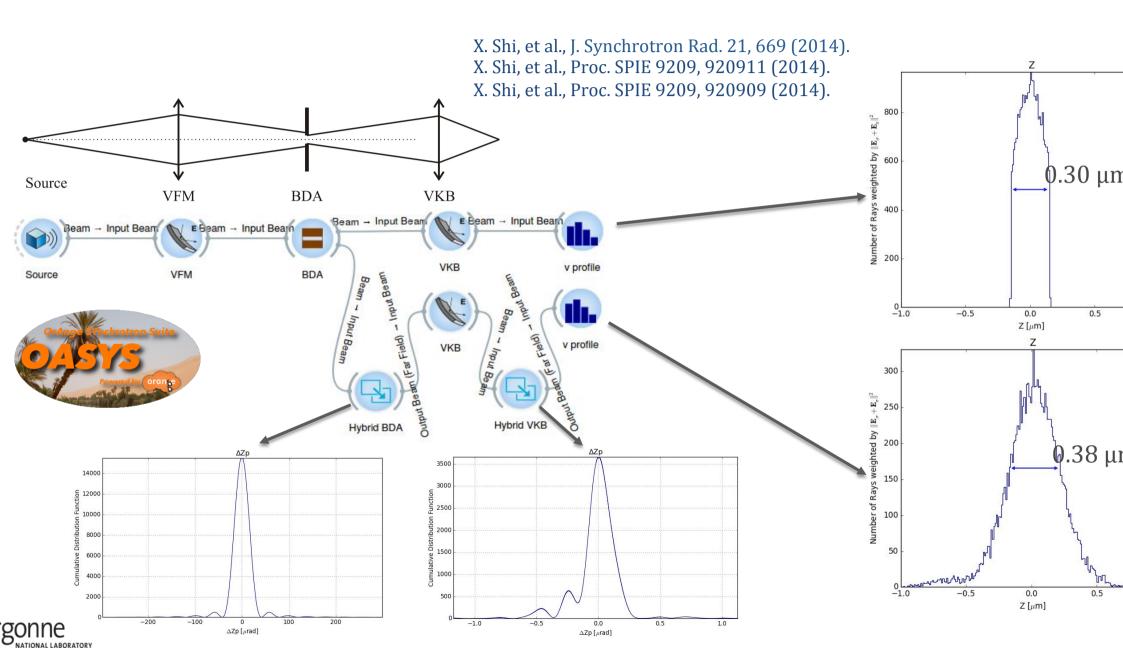
# Hybrid method: combining ray-tracing and wavefront propagation





Kirchhoff tangent plane + paraxial approximation

#### SHADOW-HYBRID in OASYS



#### **Example**

10 keV Elliptical cylinder point source p = 30 m q = 0.3 m (50 to use  $\theta = 3 \text{ mrad}$  acceptance slit)  $\theta = 3 \text{ mm}$ 

