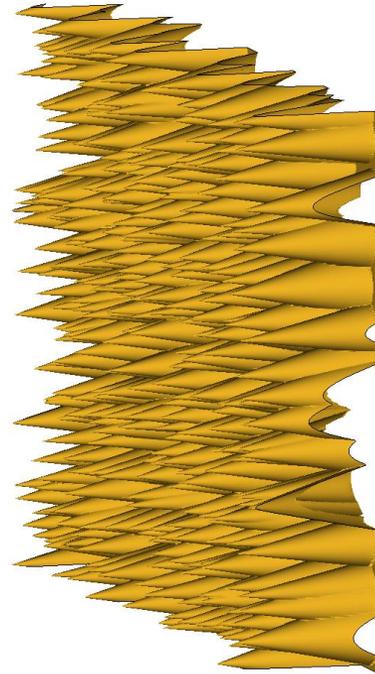


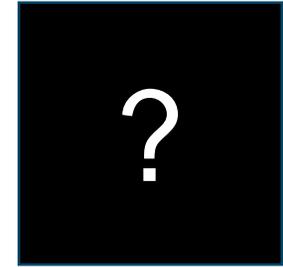
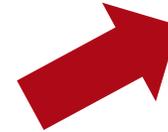
Demo: Statistical Anti-reflection Structures (Random Moth-Eye Structures)

Task: Modeling of Statistical Moth-Eye Structures

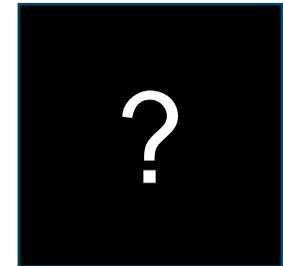
plane wave
wavelength: 633nm



Moth-Eye structures
(statistically distributed cones)



reflectance



transmittance

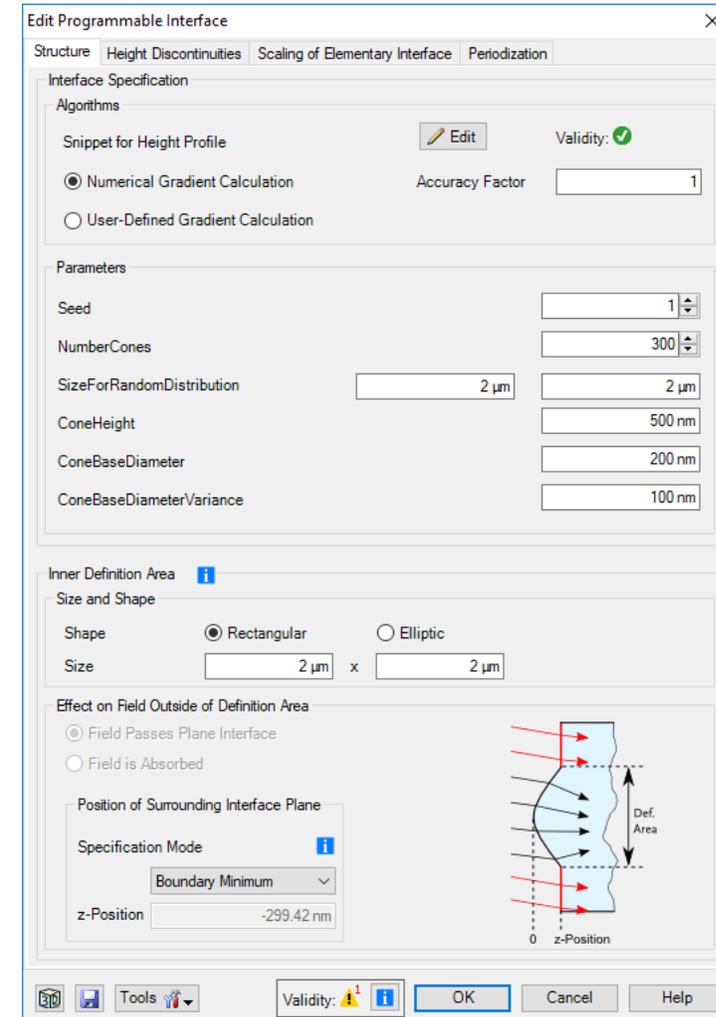
Random Cone Interface

The moth-eye structure is modeled by a random (statistical) distribution of cones.

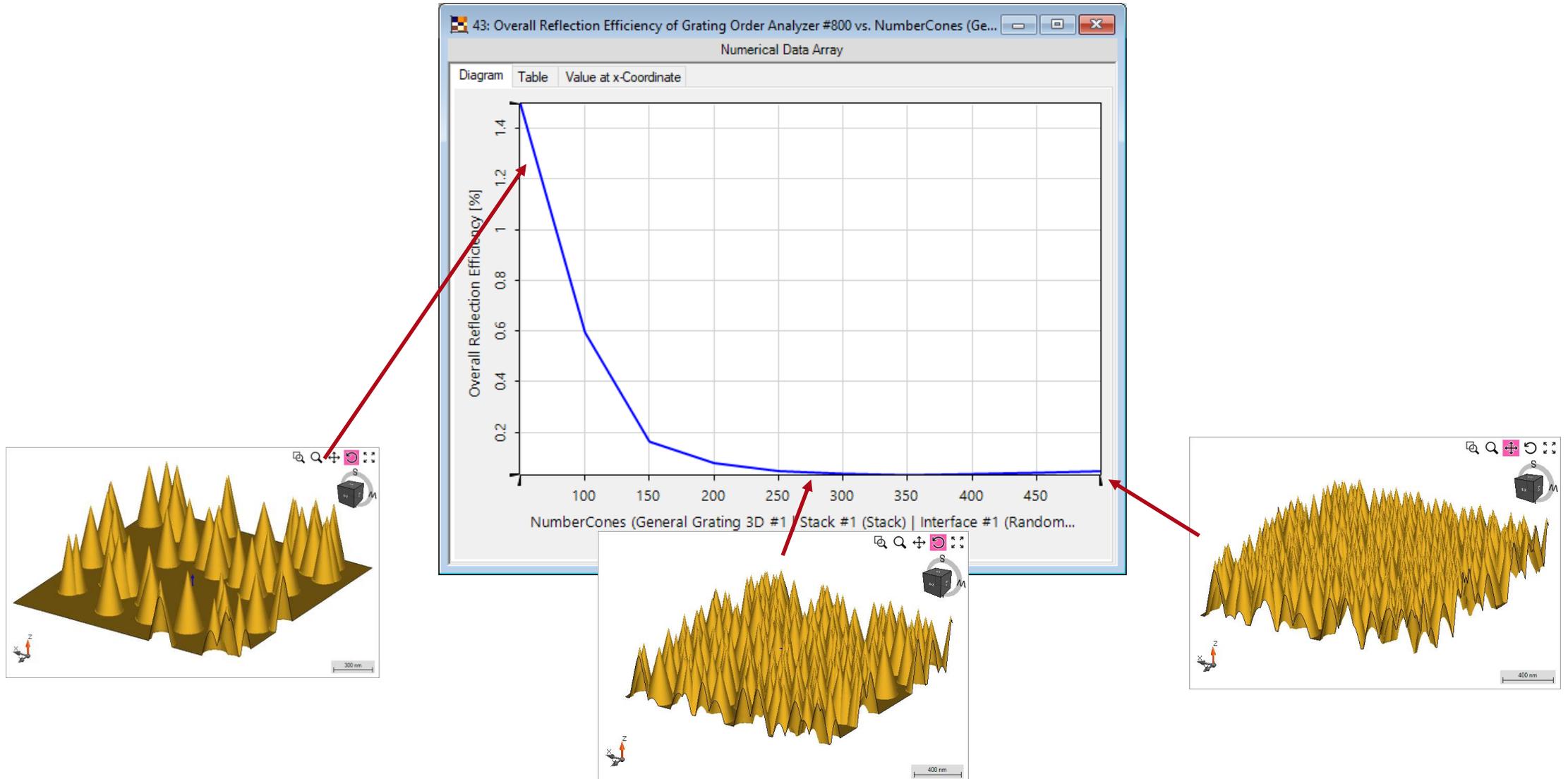
For this purpose, the *Random Cone Interface* is used.

The characteristics of the surface are determined by the following parameters:

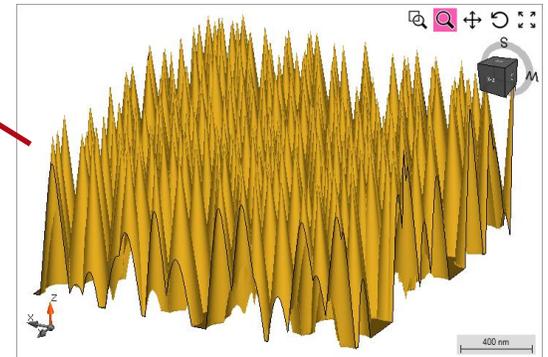
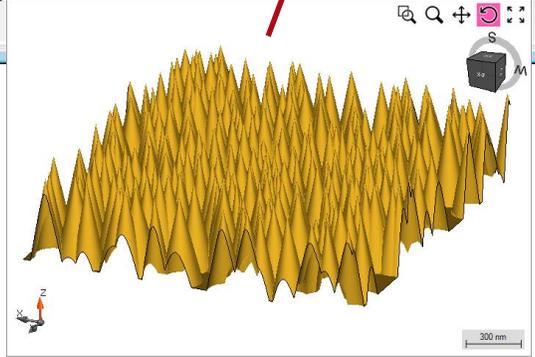
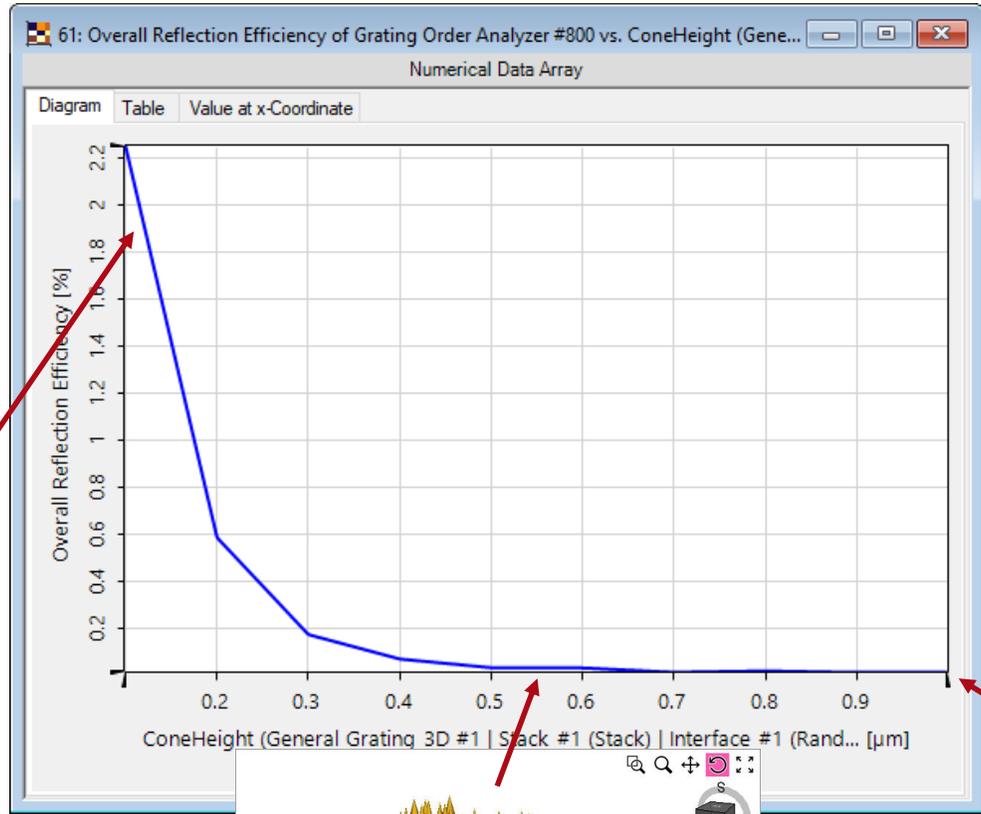
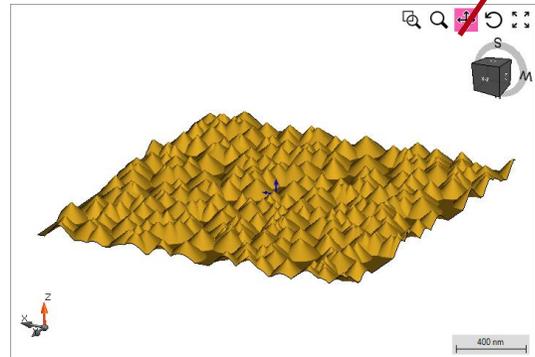
- number of cones (in the chosen definition area)
- height of cones (cones have constant height)
- diameter of the cones at basis
- Variance of cone diameter
- size of *Definition Area* / Size for Random Distribution
- period of interface



Result: Dependency on Number of Cones



Result: Dependency on Height of Cones



Result: Dependency on Base-Diameter of Cones

