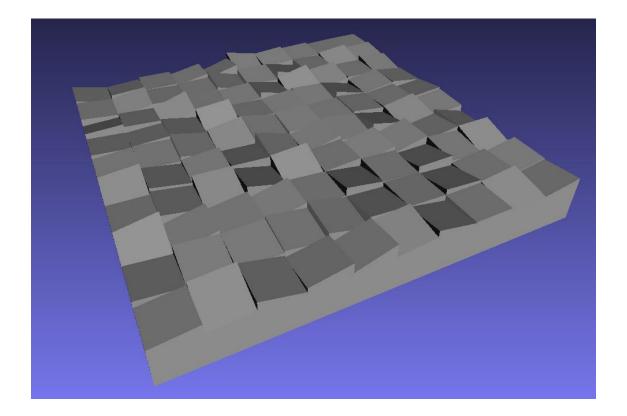


Export of Fabrication Data

Abstract

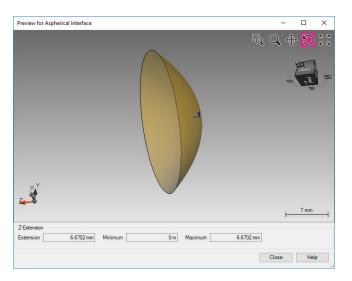


After designing an optical interface, it is essential for the users to export proper fabrication data, which is readily used by the manufacturers. VirtualLab can export smooth and quantized interfaces, as well as mirror/prism/grating cells arrays into various file formats, e.g., STL file format, which is widely used for rapid prototyping, 3D printing, and computer-aided manufacturing, and GDSII file format, which is commonly used in lithographic exposure techniques.

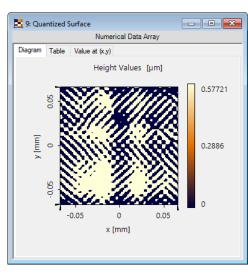
Task Illustration

flexible export of

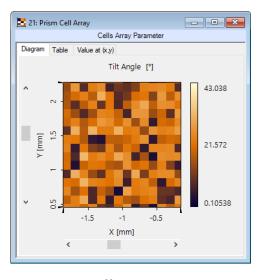
- smooth interfaces
- quantized interfaces
- mirror/prism/grating cells arrays



smooth interface



quantized interface



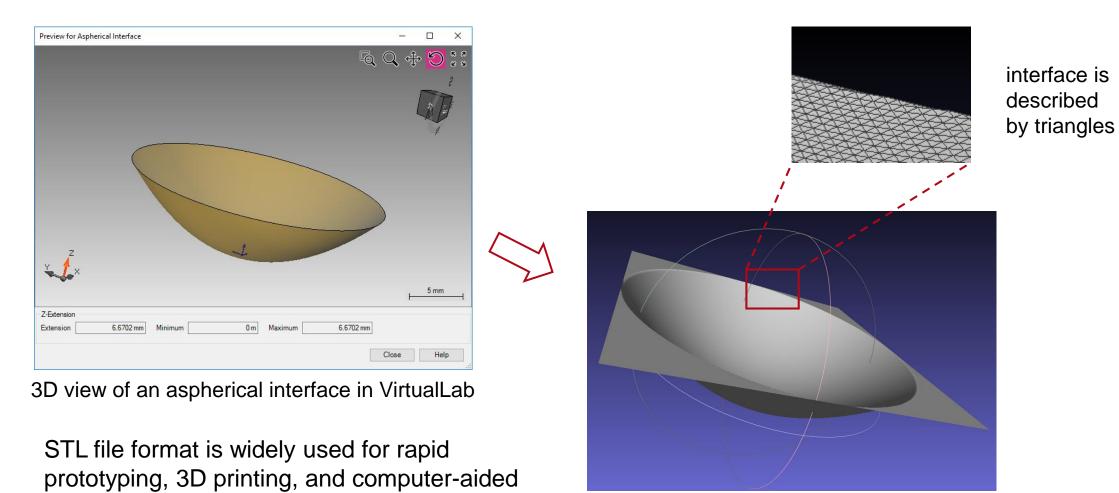
Supported File Formats of Fabrication Data

supported file formats

- plain text
- ASCII
- point cloud
- CAD formats (e.g., STL, IGES)
- CIF
- GDSII

	Interface Expo	ort		×
	General Exp	oort Parameters		
	Output File(s)		
	Path	C:\ProgramD	ata\Wyrowski Photonics\VirtualLab Fusion\ Selec	ct
	File Names	(Without Extension)	Export_Da	ata .*
	Mask Deco	mposition Settings		
, IGES)	Export Binary Masks (1) File Name Convention Descending			
· · · · · · · · · · · · · · · · · · ·	Export as			
	🗌 Plair	n Text (*.ptf) 🗌 AS	iCII (*.txt)	
	Poin	nt Cloud (*.xyz)	STL (*.stl) Bitmap (*.bm	(p)
		s		
Export Grating Cells Array	×	ile (*.xml)	ASCII file (*.txt)	
Grating Type Sawtooth Grating	· ~	_ file (*.html)	Rich Text Format (*.rtf)	
Calculate Binary Masks				
Number of Discrete Height Levels 2			► E	Export
Height Profile Storage				
☐ Text File (*.csv)			Close	lelp
OK Cancel	Help			

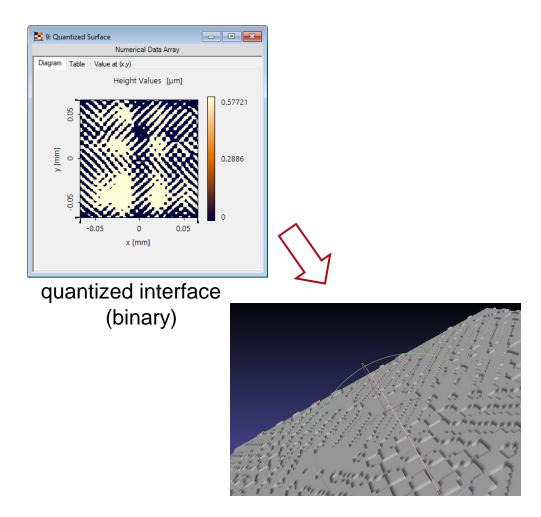
STL Export of Smooth Interfaces (e.g. Asphere)

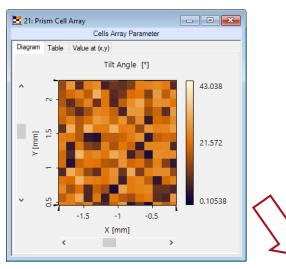


STL export of an aspherical interface (illustrated by MeshLab)

manufacturing.

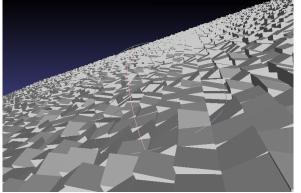
SLT Export of Quantized Interfaces and Prism/Mirror Cells Array



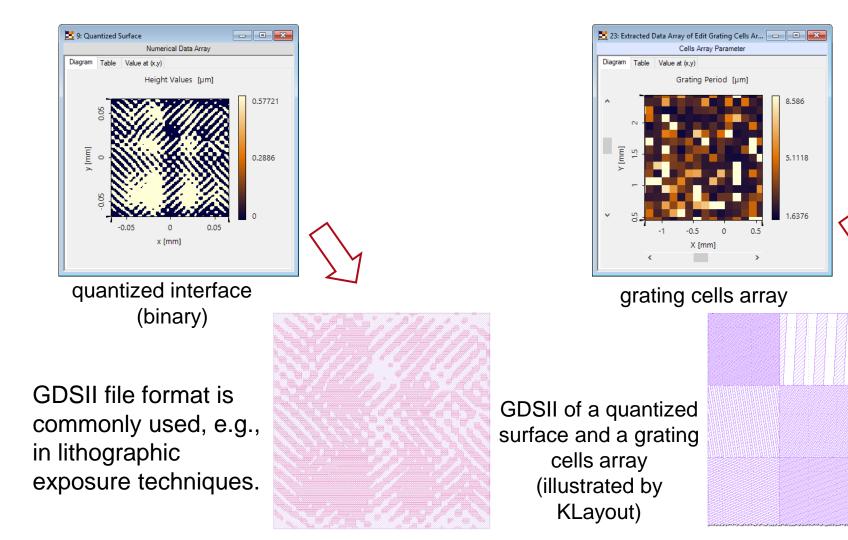


prism/mirror cells array

STL of a binary interface and prism/mirror cells array (illustrated by MeshLab)



GDSII Export for Quantized Interfaces and Grating Cells Array



title	Export of Fabrication Data
version	1.0
VL version used for simulations	7.3.1.15
category	Feature Use Case