	scuff-EM	BUFF-EM
Geometries	• Compact • 1D-extended (Bloch-periodic) • 2D-extended (Bloch-periodic)	• Compact
Materials	• Linear, isotropic, piecewise-homogeneous permittivity, permeability $\epsilon(\omega), \mu(\omega)$ • Specify frequency dependence using **functional expressions** or **tabulated data**	• Linear, **anisotropic, spatially continuously varying** permittivity $\boldsymbol{\epsilon(\omega, x)}$ • Specify frequency dependence using **functional expressions** or **tabulated data** • Specify spatial dependence using **functional expressions**
APIs	• C++ • Python	• C++

Application Modules	• **Scattering / photonics**
	  – SCUFF-SCATTER
	  – SCUFF-TRANSMISSION
	  – SCUFF-LDOS
	  – SCUFF-TMATRIX
	
	• **Fluctuation physics**
	  – SCUFF-CAS3D
	  – SCUFF-CASPOL
	  – SCUFF-NEQ
	
	• **RF / microwave devices**
	  – SCUFF-RF
	
	• **Electrostatics**
	  – SCUFF-STATIC
		• **Scattering / photonics**
		  – BUFF-SCATTER
		
		• **Fluctuation-physics**
		  – BUFF-NEQ