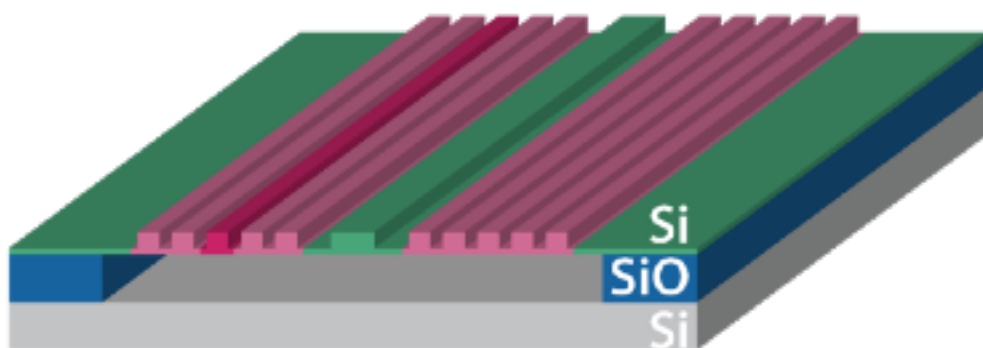
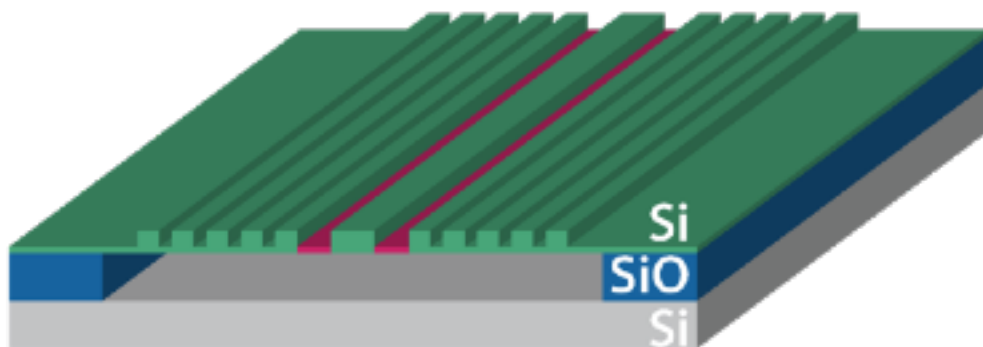


waveguide core

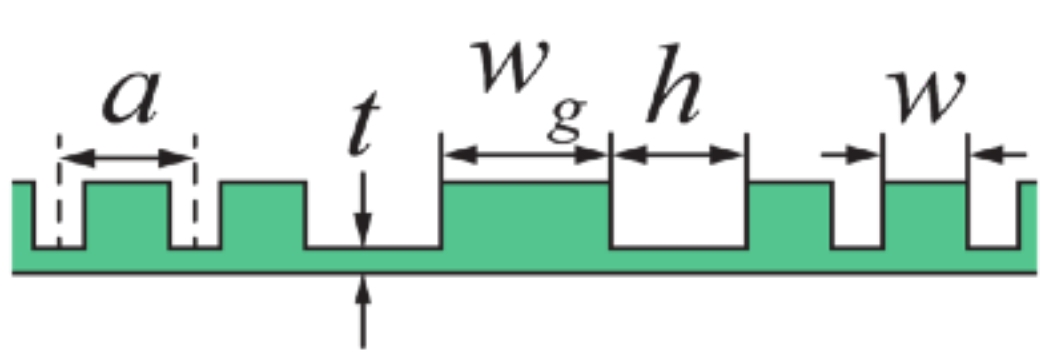


phononic crystal



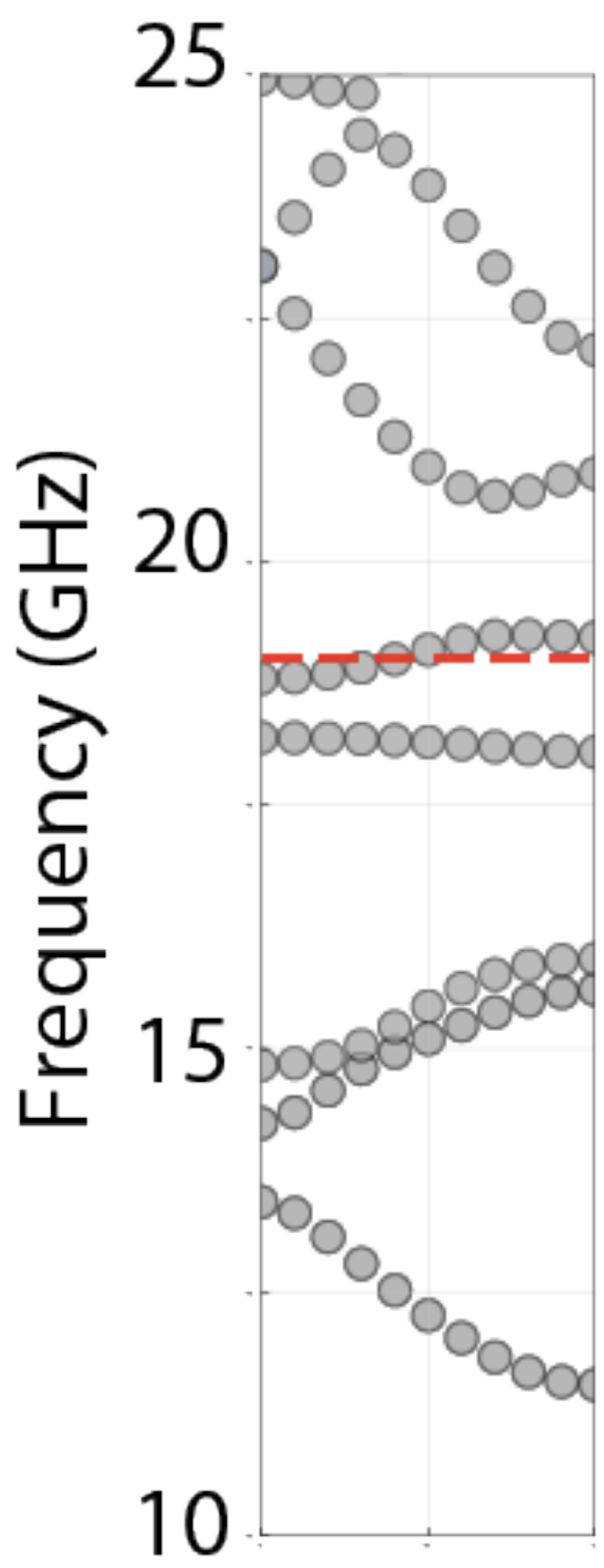
waveguide core support



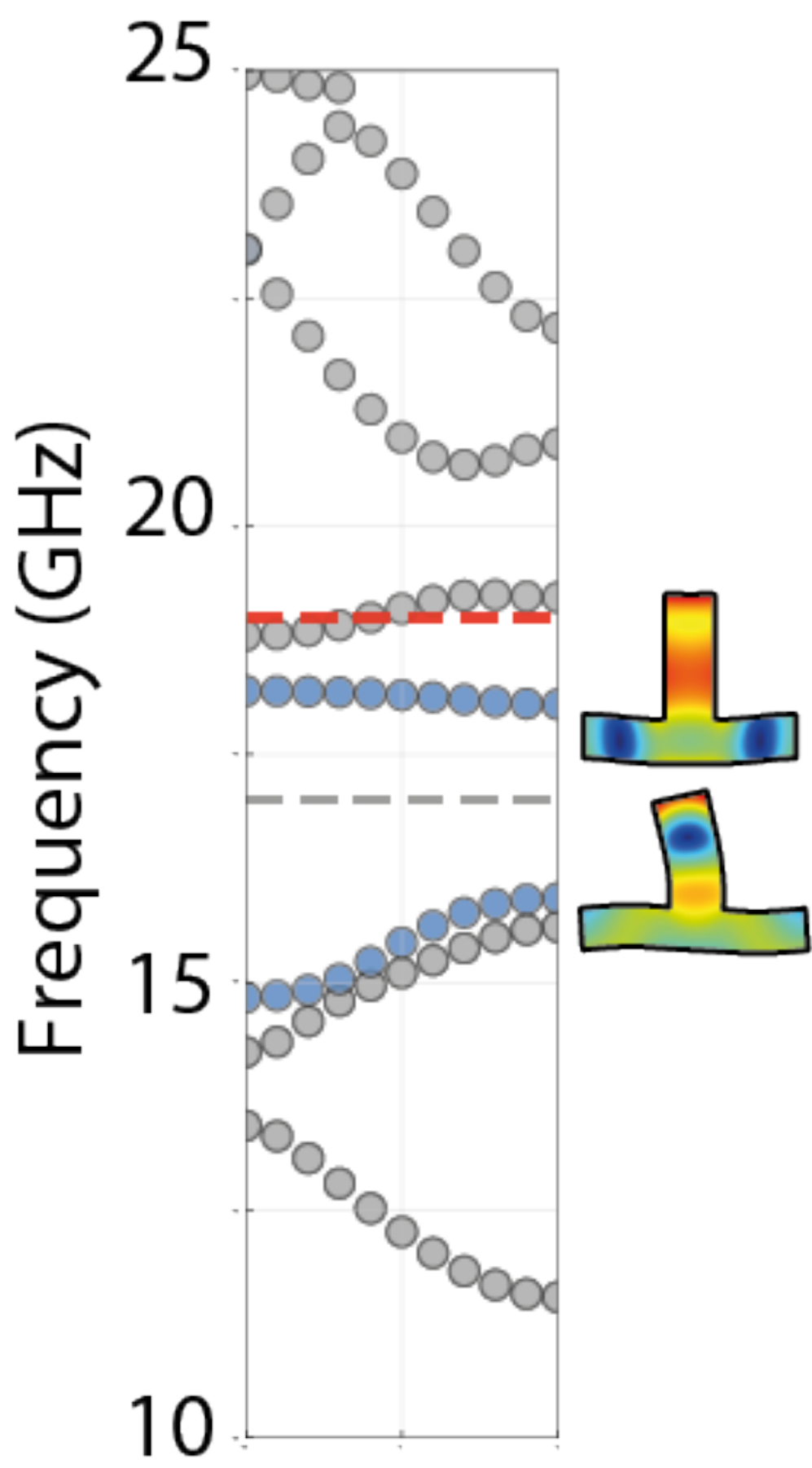


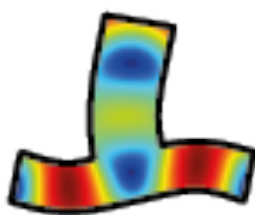
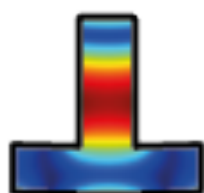
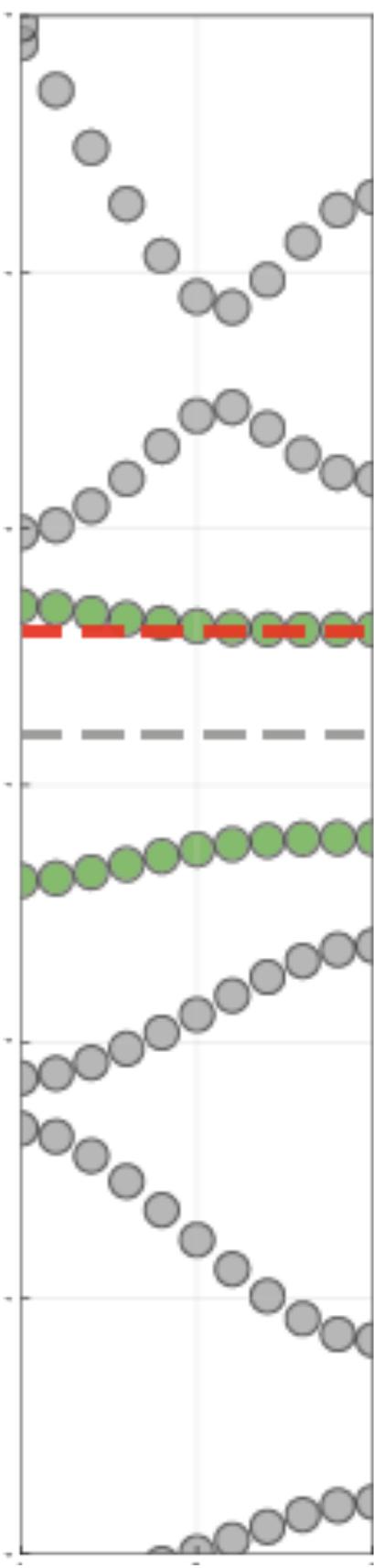


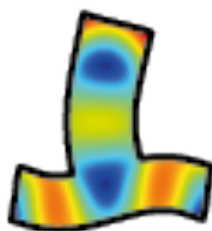
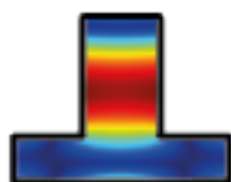
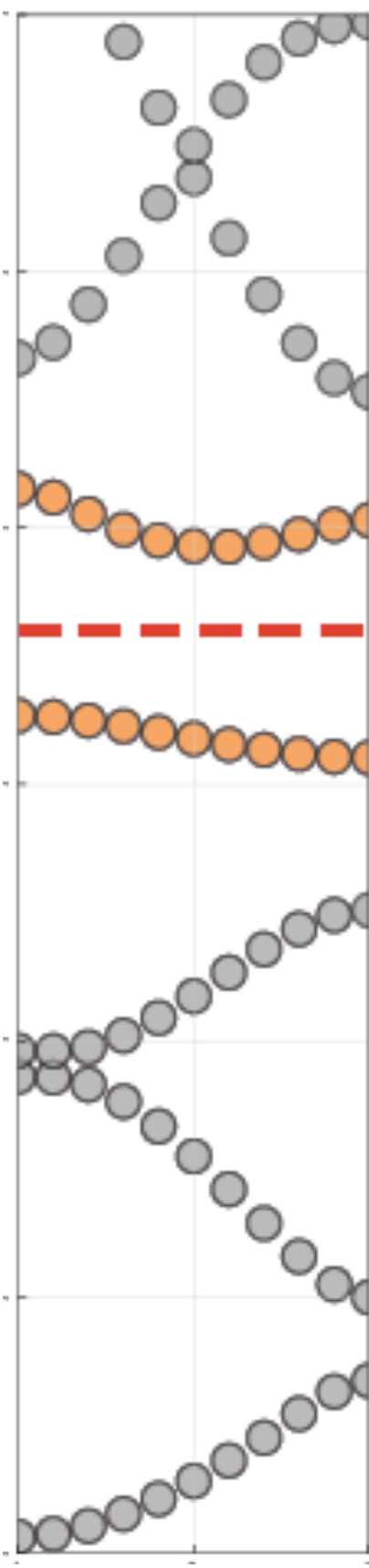




WaveguideDesignProc:PhnC







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Wombat 2022, Erlangen, June 14th 2022. Gustav Wiederhake.











$\Gamma$

$X$

$k_x$

$\Gamma$

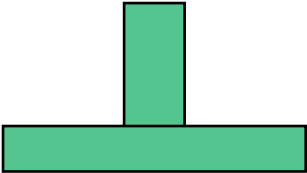
$X$

$k_x$

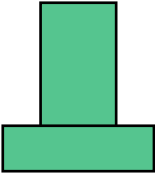
$\Gamma$

$X$

$k_x$







**Lamb wave**  
**Frequency**  
**@18 ( $\mu m$ )<sup>-1</sup>**



# PhnC Parameters map

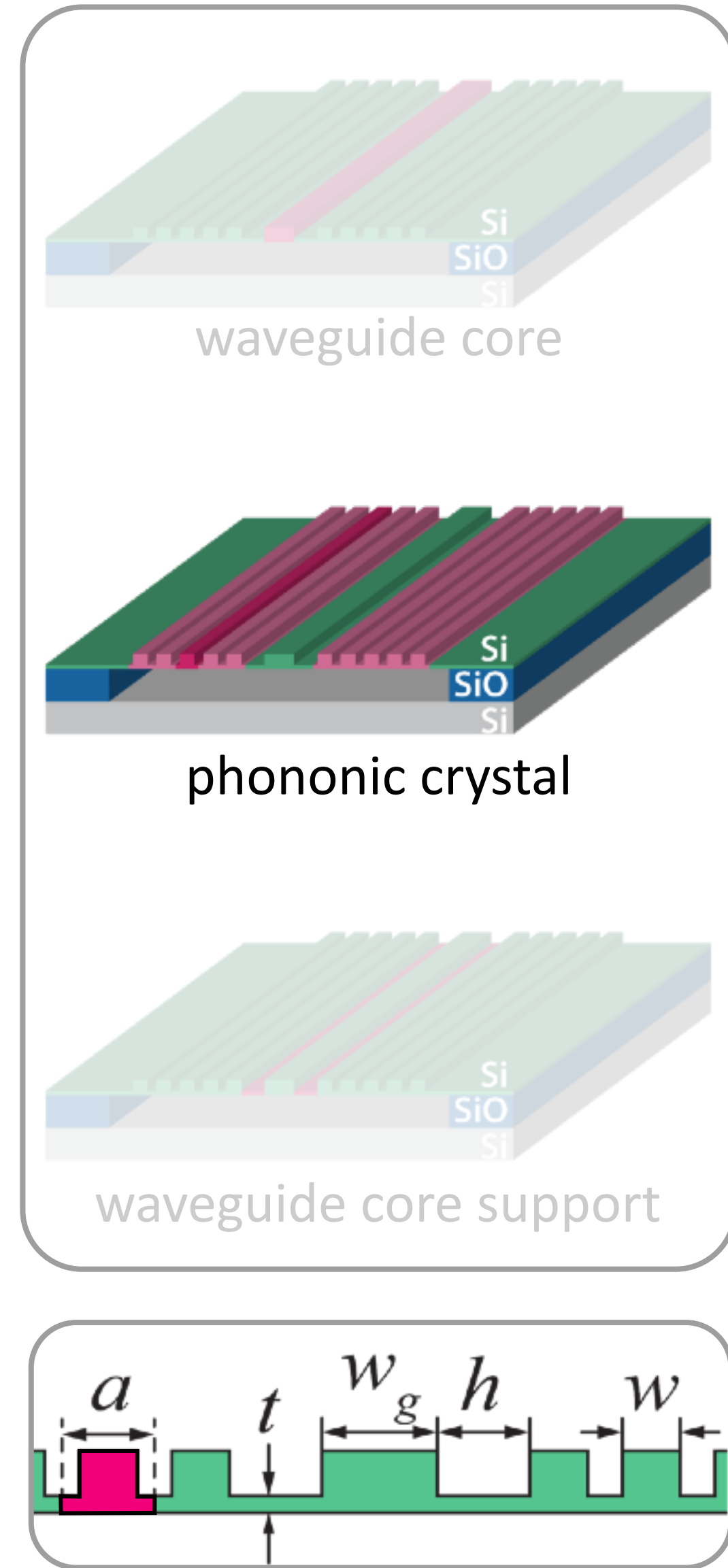
Band diagram @18  $(\mu m)^{-1}$



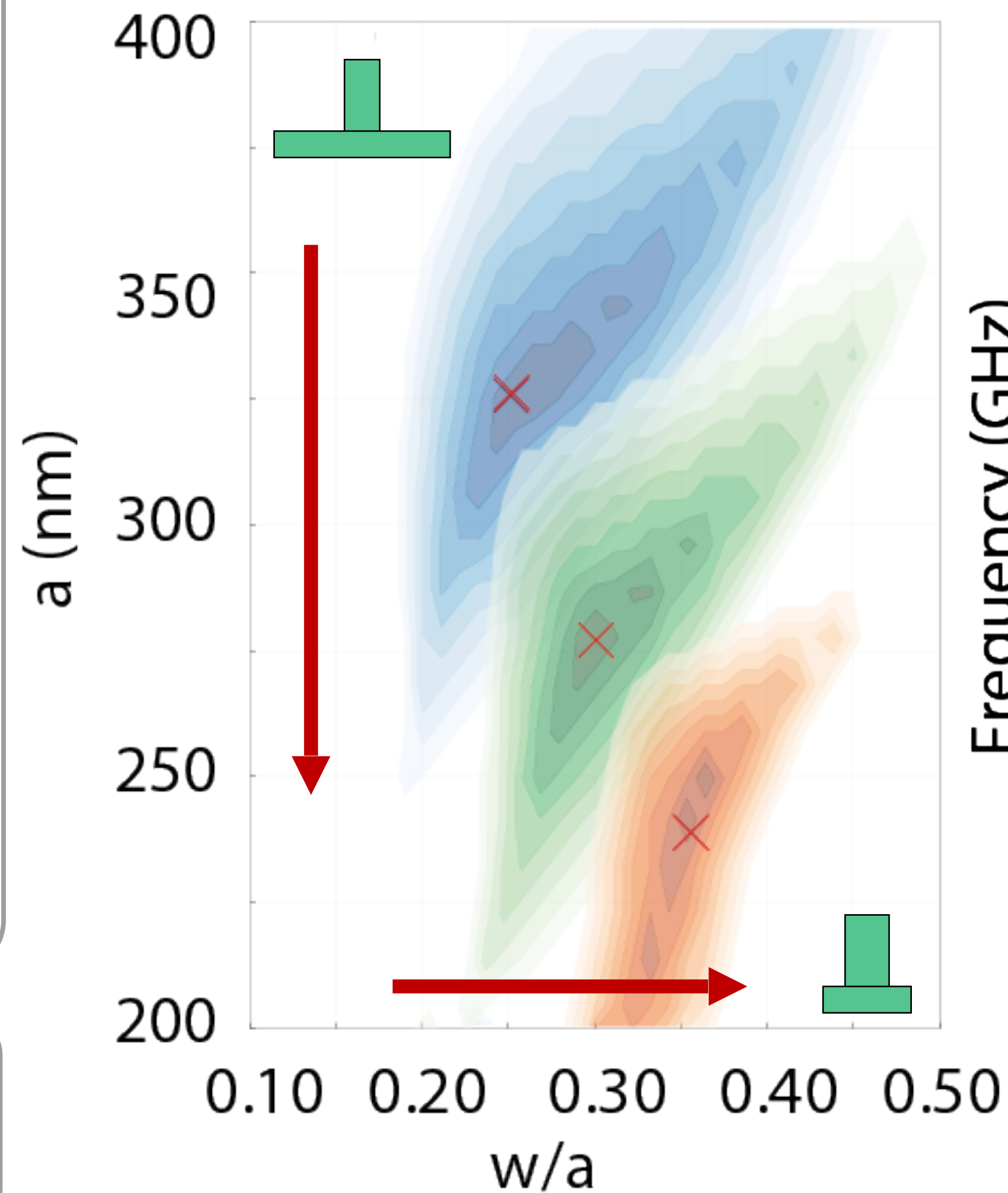
DO: 10.5281/zenodo.44148337



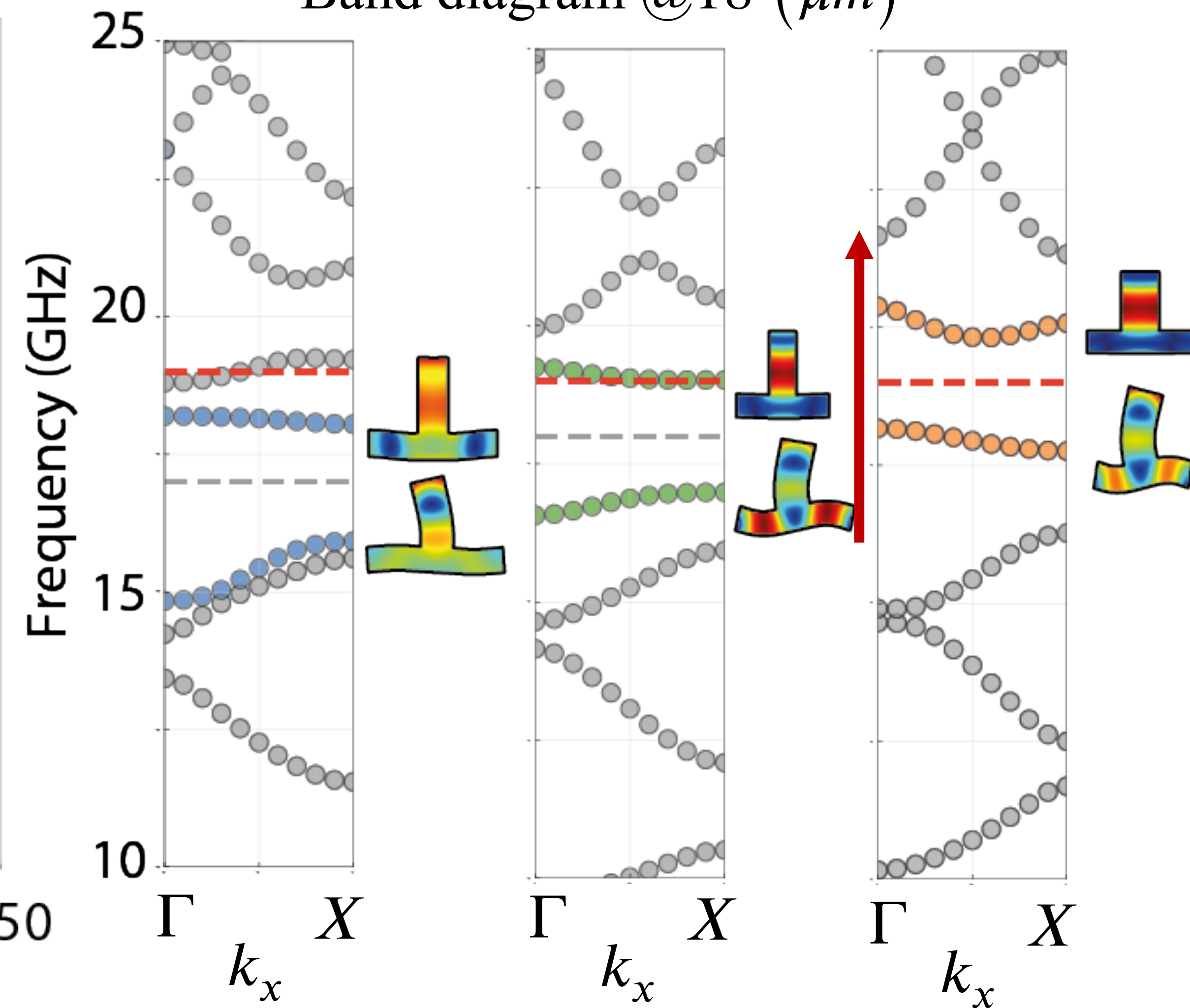
# Waveguide Design Process: PhnC



PhnC Parameters map



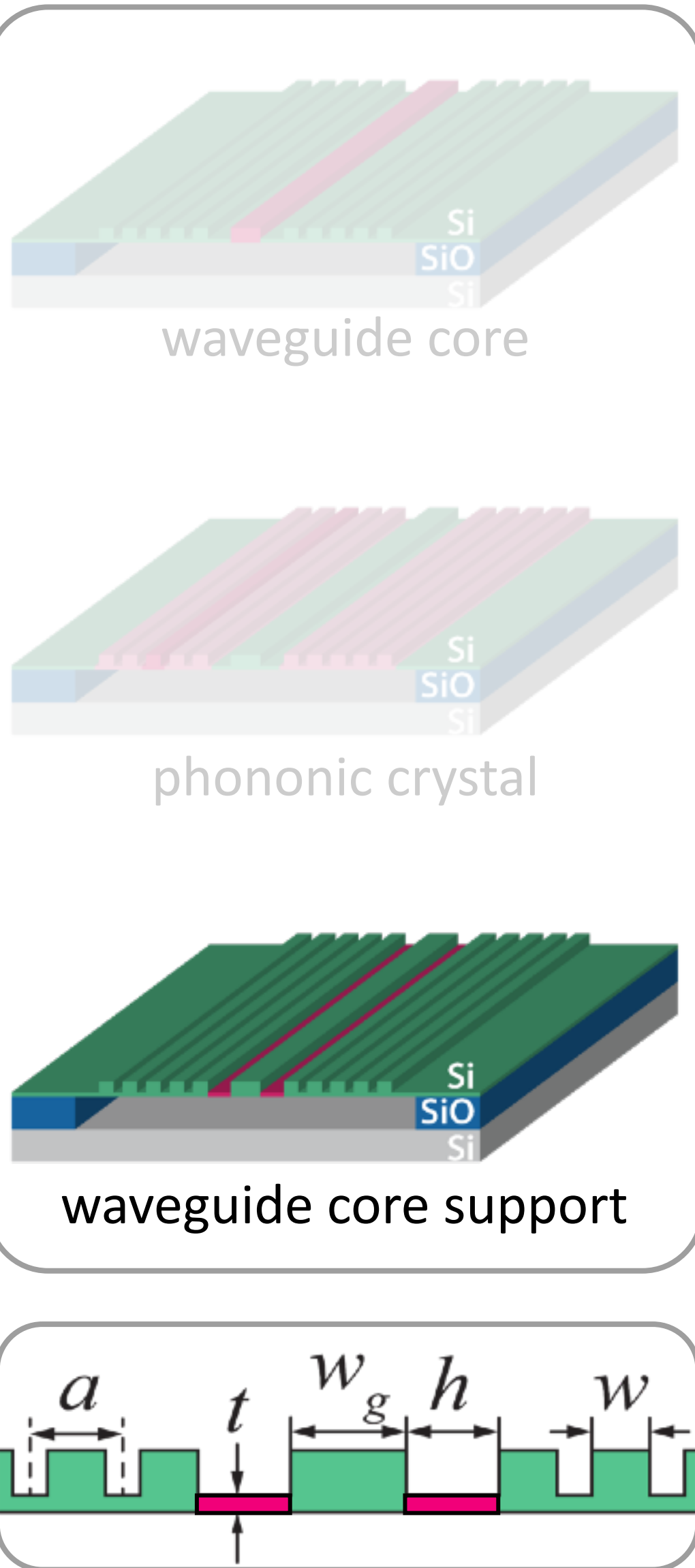
Band diagram @18  $(\mu m)^{-1}$



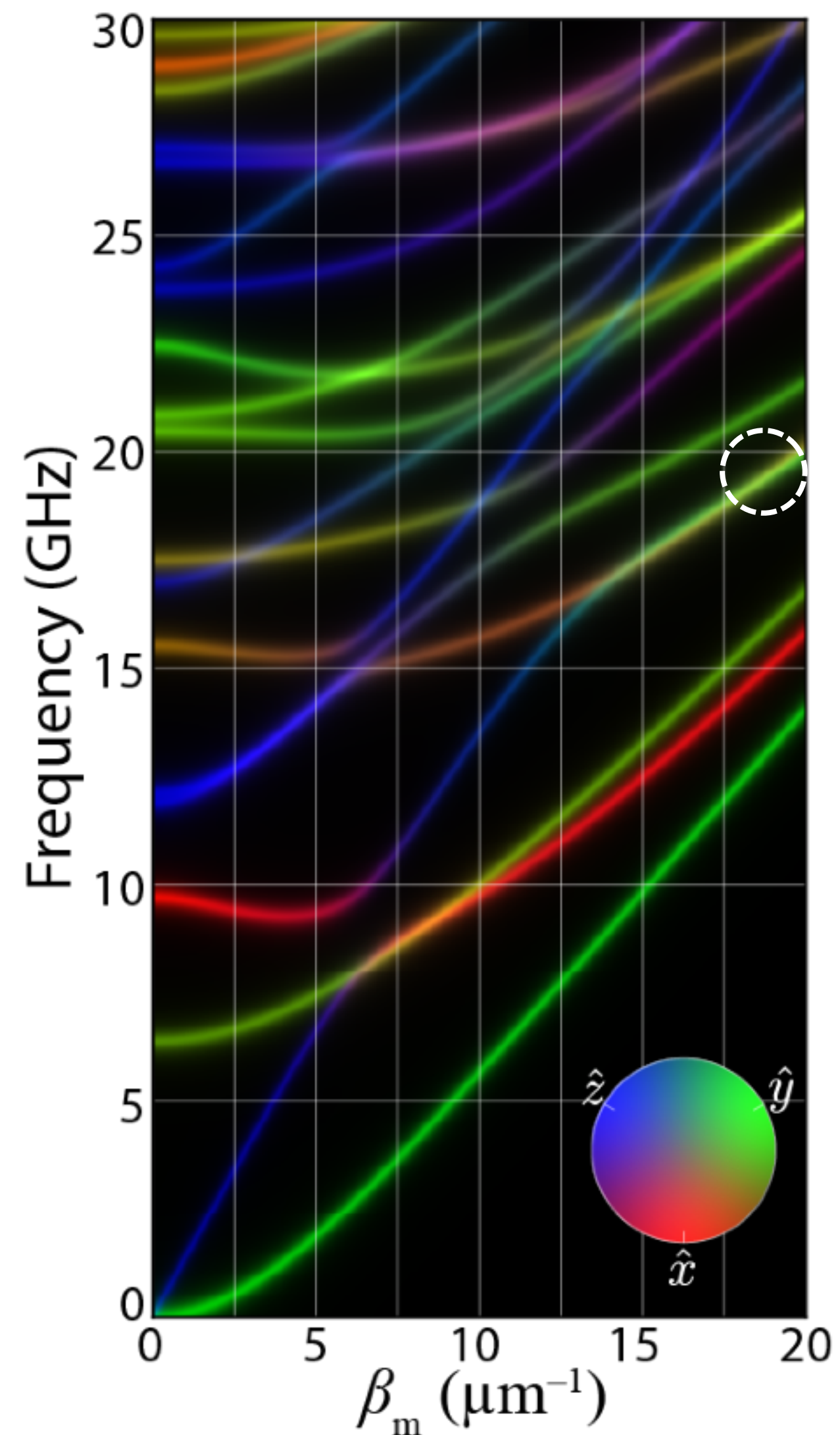




# Waveguide Design Process: Core support

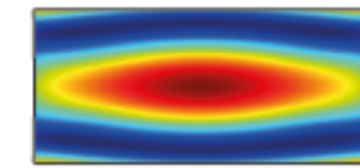


Core mechanical dispersion



Waveguide Mode

zy-polarized



Support Mode

y-polarized

