





A grayscale micrograph showing a curved, light-colored surface against a dark background. The surface appears to be a thin layer or coating on a substrate. A white scale bar is located in the bottom left corner, with the text "3 μm" positioned above it.

3  $\mu\text{m}$

**Example: Brillouin Self-cancellation**

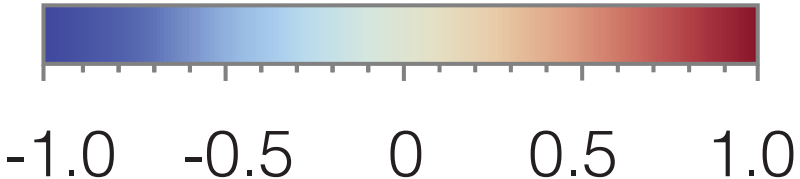
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Wiederherstellen

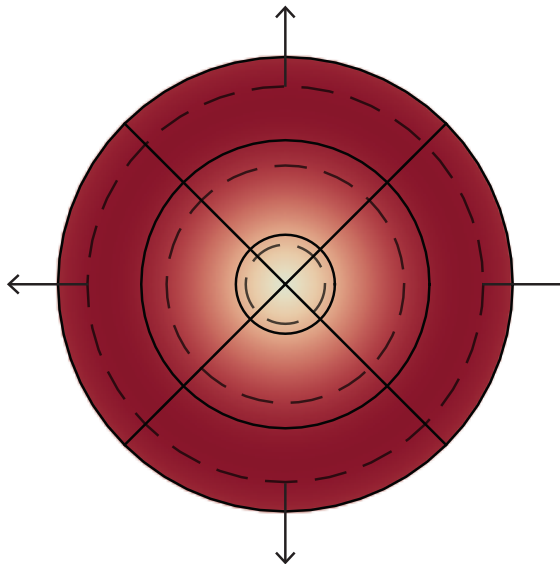




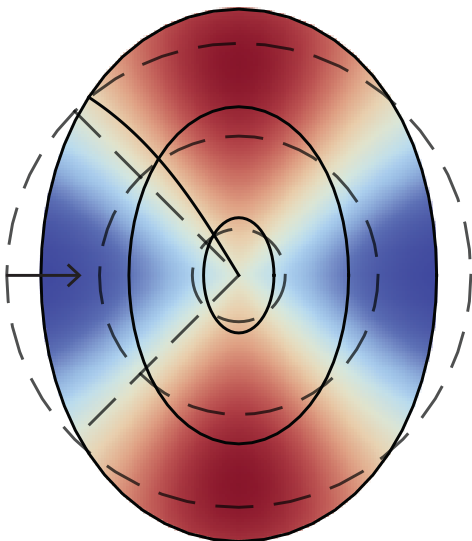
Displacement

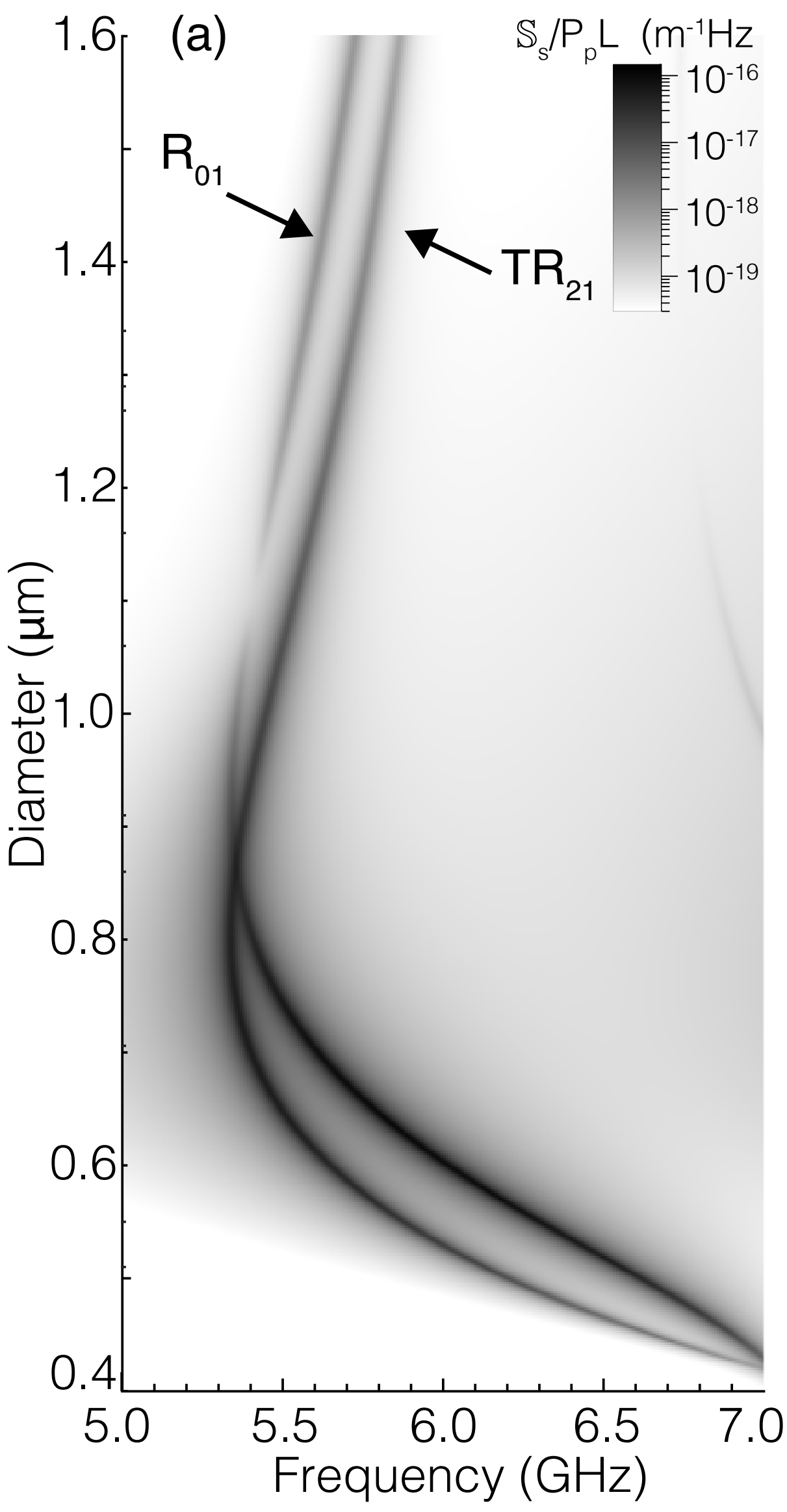


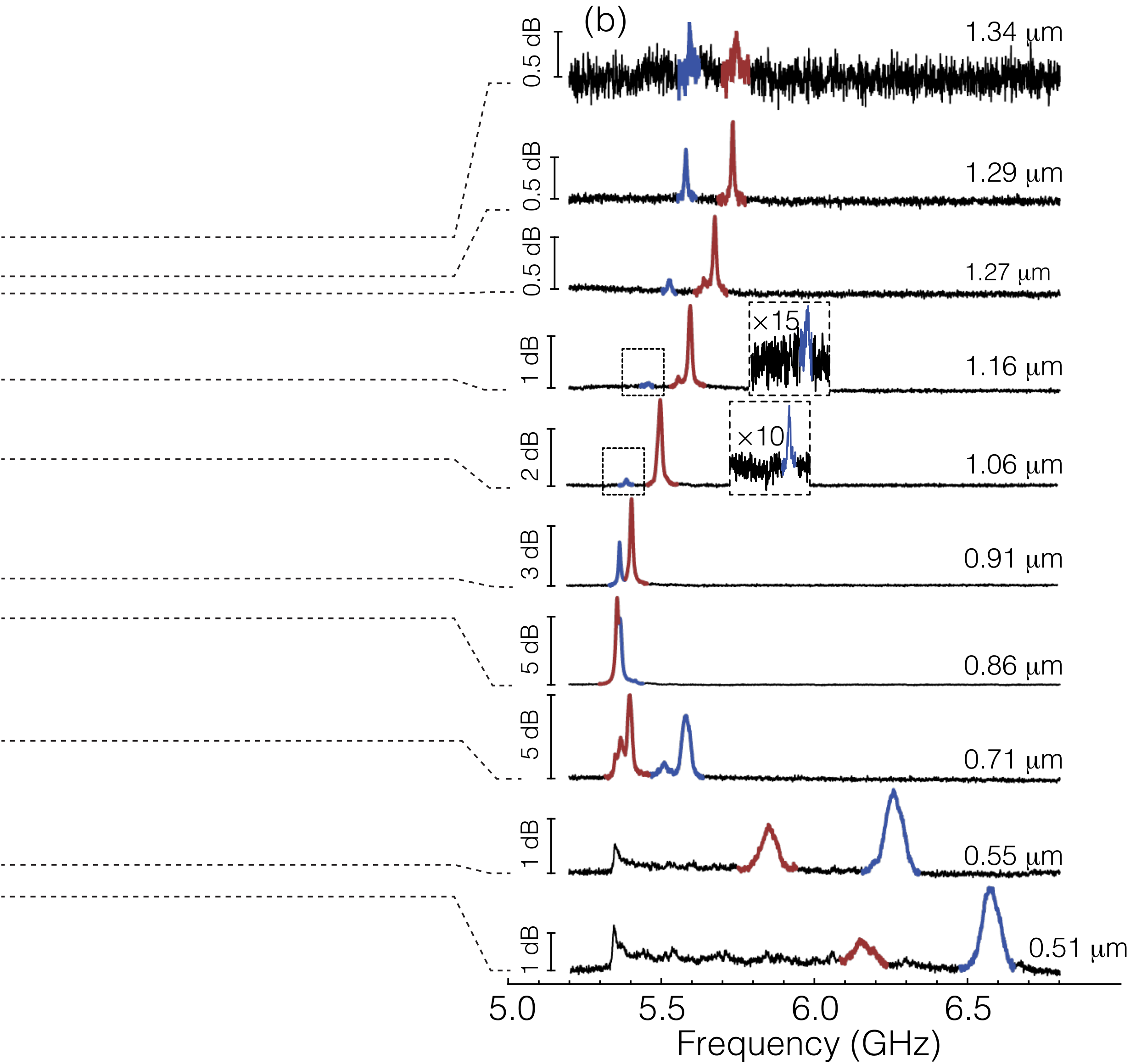
Radial ( $R_{01}$ )



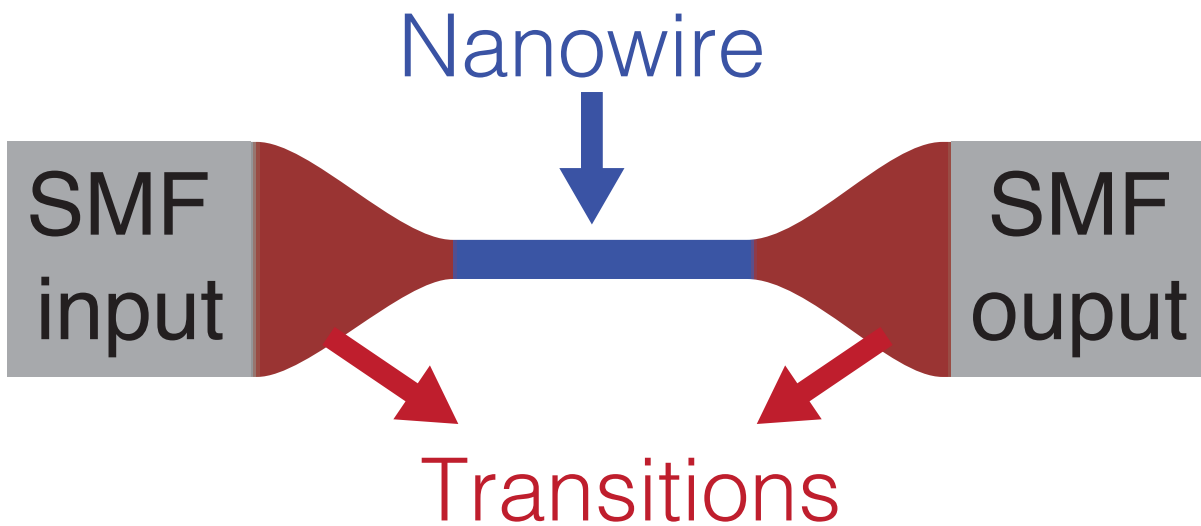
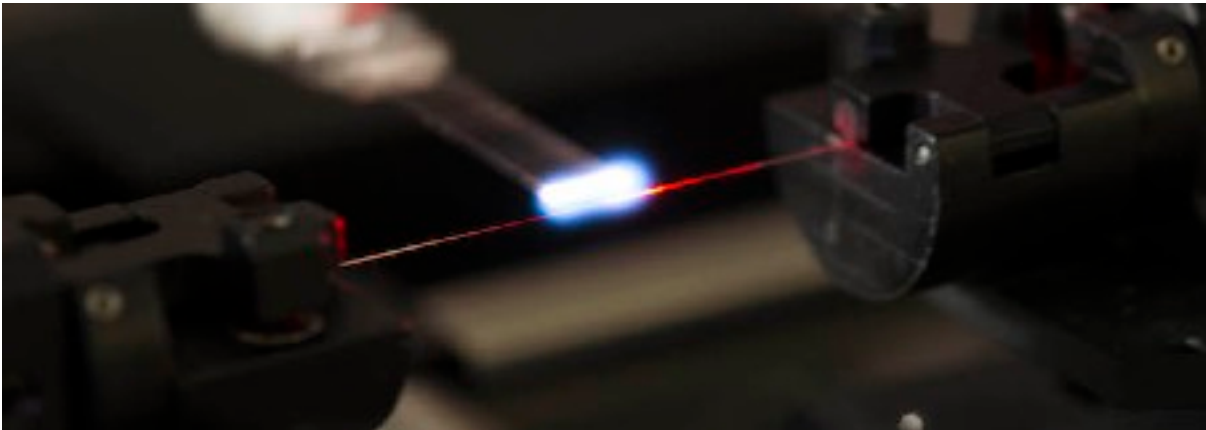
Torsional-Radial ( $TR_{21}$ )







O. Frez et al. 'Brillouin scattering self-correlation,' Nat Comm, vol.7, p.11759, (2016).



Displacement



As2S3 and Corning 7059 glass on fused



'Numerical simulations for thin films of

**optic effect does not always dominate**

the scattering cross section and that

silica substrates indicate that the last-

**G.I. Steggeman - 1979**

the migration mechanism must often

be taken into account.”

Johnson, S.G., et al. Phys. Rev. E, 65(6), 066611.



R. Nordin, et al, J. Opt. Soc. Am. 69, 1153-1165 (1979)

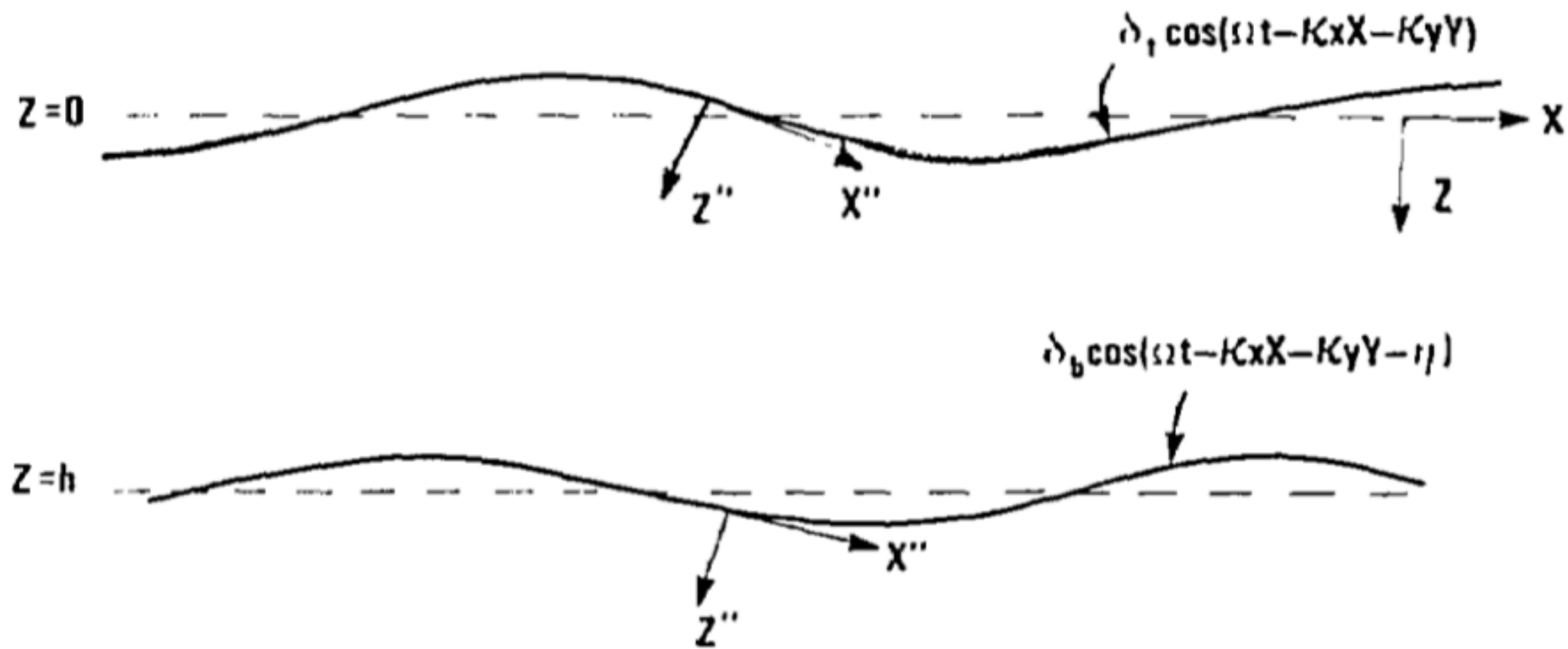


FIG. 4. Acoustically corrugated film surfaces.

# **Scattering of guided optical beams by surface acoustic waves in thin films**

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