

Vectorial modes

Outline

6

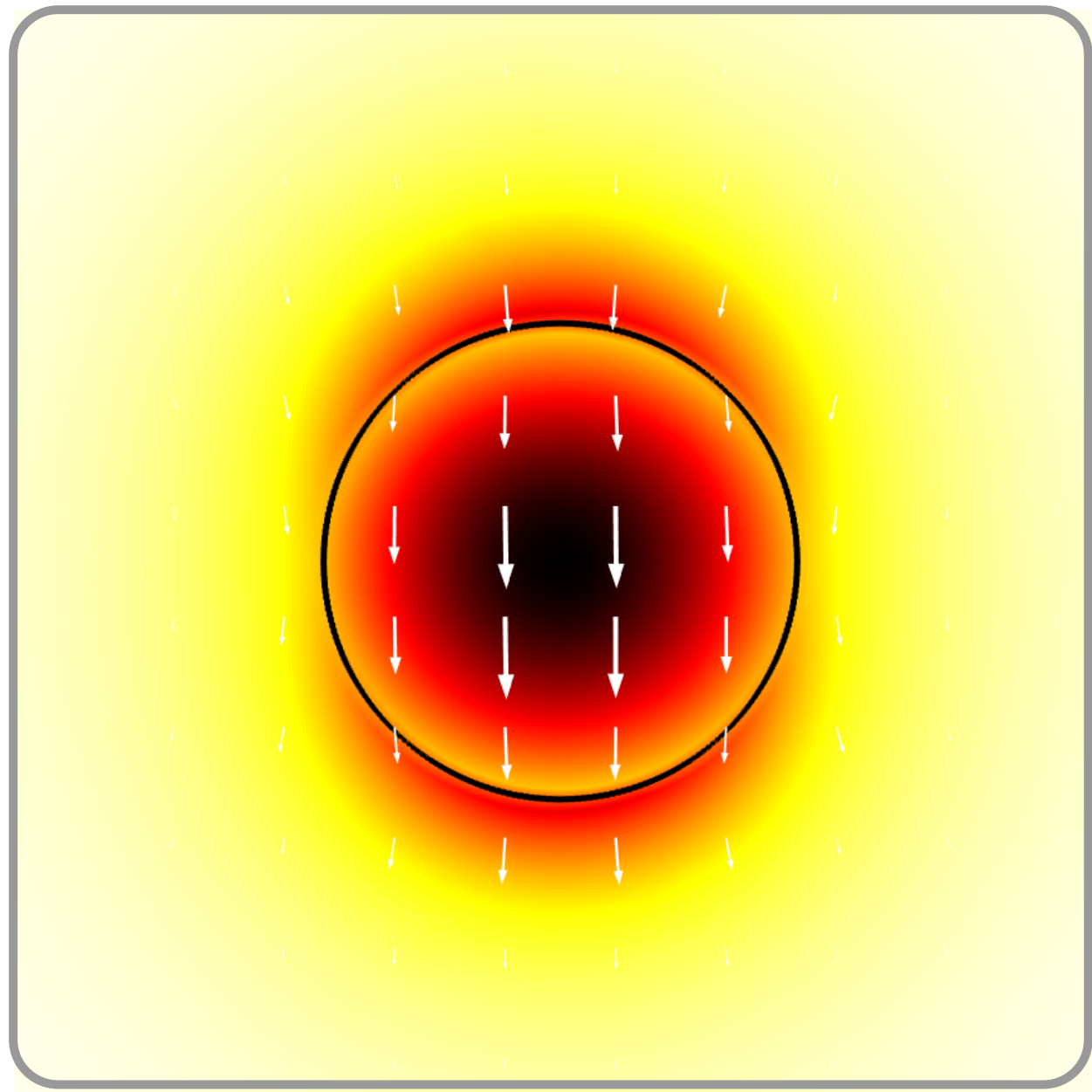
1

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



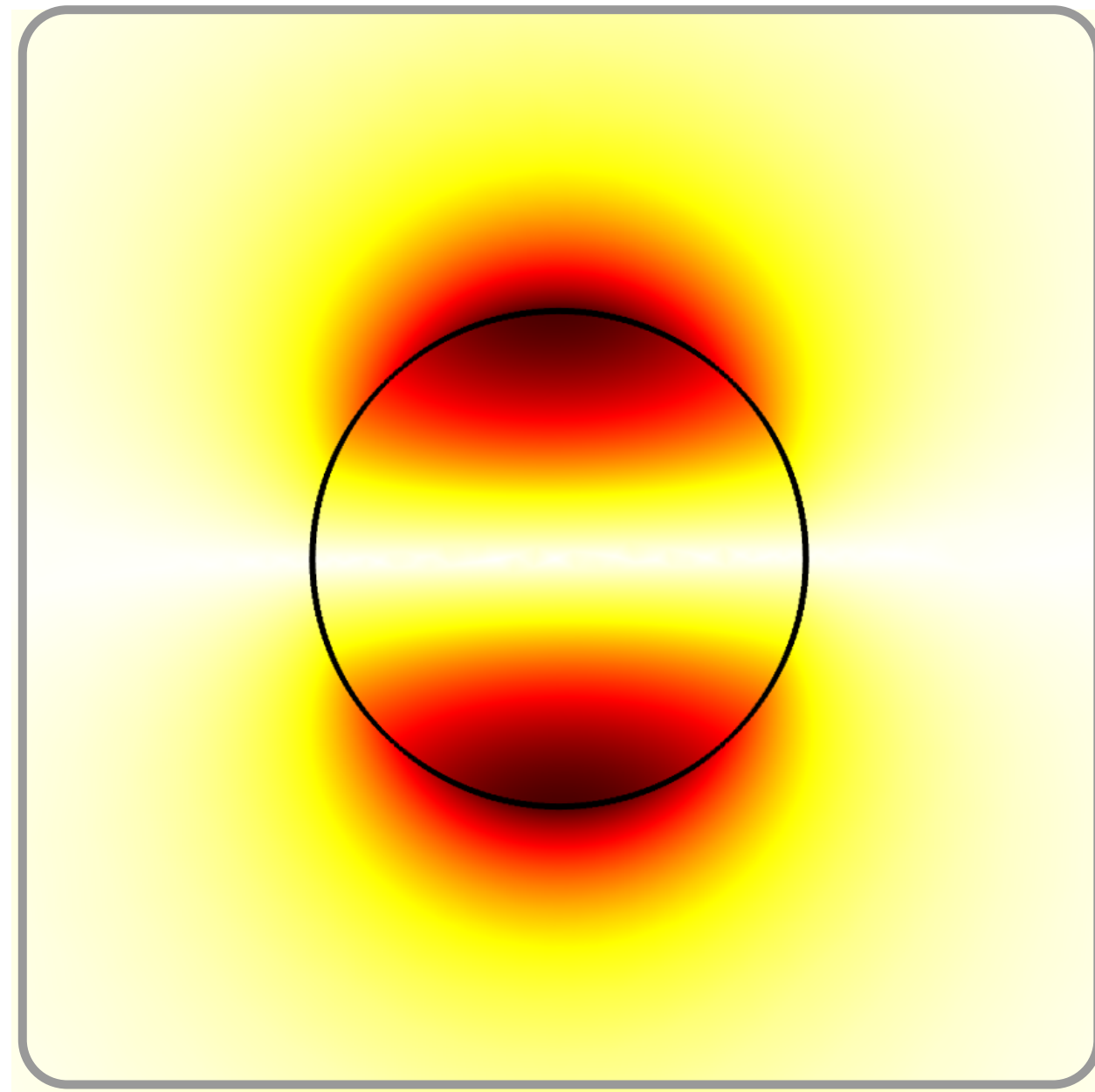
0.0

1.0

 $|E_t|$ 

0.0

0.5

 $|E_z|$ 

$$\frac{E_z}{E_t} \approx \frac{1}{2\pi n_{\text{eff}}} \left(\frac{\lambda}{a} \right)$$

$$\frac{E_z}{E_t} \approx 0.42$$

$$n_{eff}=1.17; 2a=1\mu\text{m}; \lambda=1.55\mu\text{m}$$

V.D. = O

• Introduction to Bragg Scattering

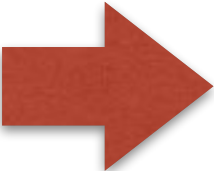
• Mechanical modes

Optical modes

• Optomechanical cavities

• **Harnessing Brilliant Interaction**

Final remarks



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