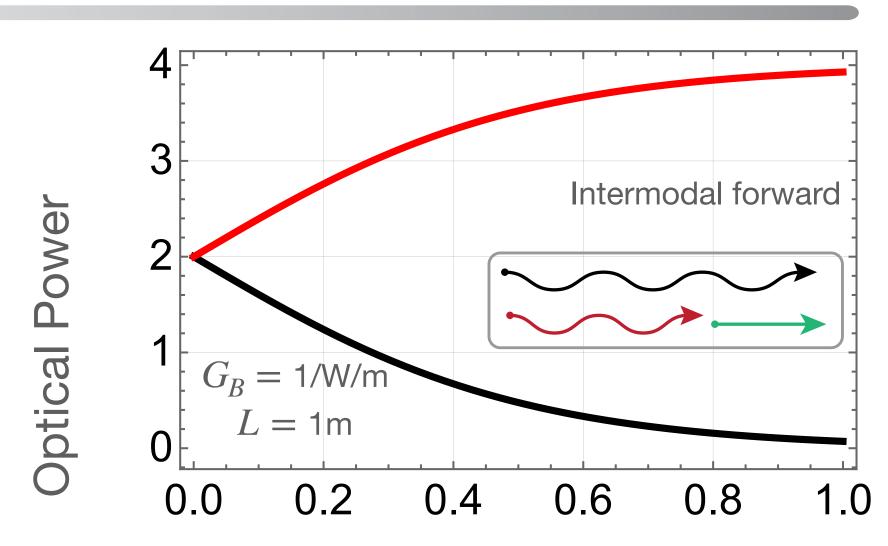
The full Brillouin gain calculation

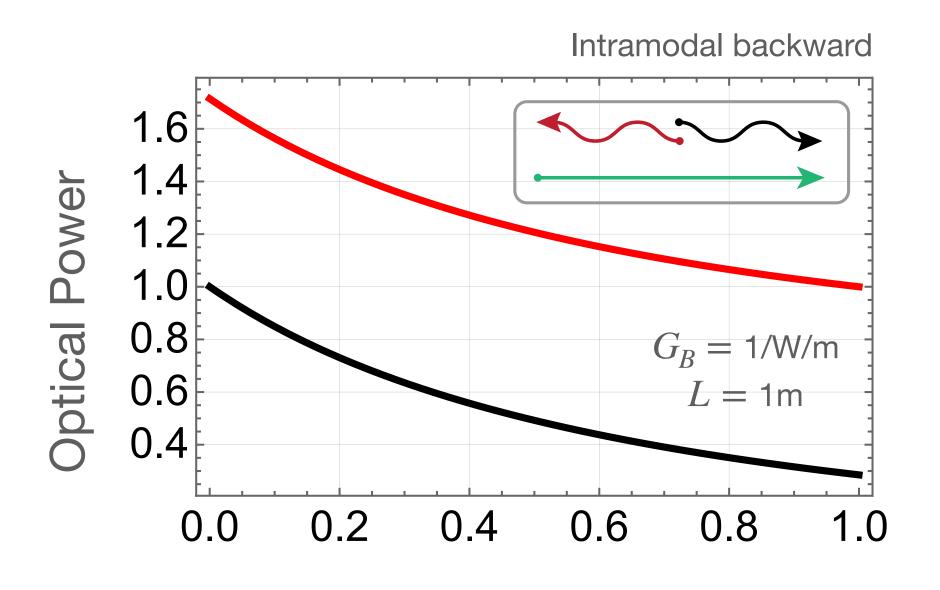


- Steady state: $\partial_t = 0$
- Lossy mechanical wave (large γ_m/v_m)

$$\partial_z P_p = -G_B P_p P_s - \alpha_p P_p$$

$$\partial_z P_s = \pm G_B P_p P_s \mp \alpha_s P_s$$





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