1 Filter equations

Temporal impulse response:

$$h(t) = \sin(2\pi t) t^2 e^{-3.5t}$$

Spectral transfer function:

$$h(f) = \frac{f^2}{\mu^2} e^{(1 - \frac{f^2}{\mu^2})}$$
$$= \frac{f^2}{\mu^2} e^{\frac{(\mu^2 - f^2)}{\mu^2}}$$