LyX window set to "narrow" size, Instant Preview = Off. Display equation is moved towards left margin; equation number and label are completely visible.

\[
D_p(\sigma_p) = \left[ \frac{1}{2\pi} \int_{-\infty}^{\infty} |\Phi_L(\omega;1) - \Phi_B(\omega;\sigma_p)|^2 d\omega \right]^{1/2} \quad (7, \text{eq: D_p defined})
\]

Minimization of the cost function for various values of \( P \) fortuitously

LyX window set to same "narrow" size, Instant Preview = ON. Display equation appears to be positioned as if the screen were wider but in any case the number and label are missing.

LyX window set to "medium" size, Instant Preview = On. Display equation is same distance from left margin as "narrow" case; number and label are partially visible.

\[
D_p(\sigma_p) = \left[ \frac{1}{2\pi} \int_{-\infty}^{\infty} |\Phi_L(\omega;1) - \Phi_B(\omega;\sigma_p)|^2 d\omega \right]^{1/2}
\]

Minimization of the cost function for various values of \( P \) fortuitously

LyX window set to "wide" size, Instant Preview = On. Display equation is still same distance
To establish the optimization of the scales of the component AM signals, define a cost function

$$D_P(\sigma_P) = \left( \frac{1}{2\pi} \int_{-\infty}^{\infty} \left| \Phi_L(\omega;1) - \Phi_b(\omega;\sigma_P) \right|^2 d\omega \right)^{1/2}.$$  \hspace{1cm} (7)\hspace{1cm}\text{sq:D_P defined}

Minimization of the cost function for various values of $P$ fortuitously results in there being no improvement for