

The molecular wave function corresponding to destructive interference can be written

$$\Psi^*_{\text{molecule}} = \Psi_{1sA} - \Psi_{1sB}$$

or, alternatively,

$$\Psi^*_{\text{molecule}} = \Psi_{1sB} - \Psi_{1sA}.$$

The diagrams (for the first equation) look like this:

