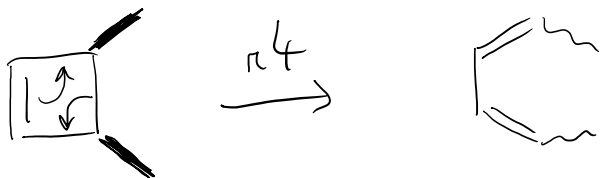
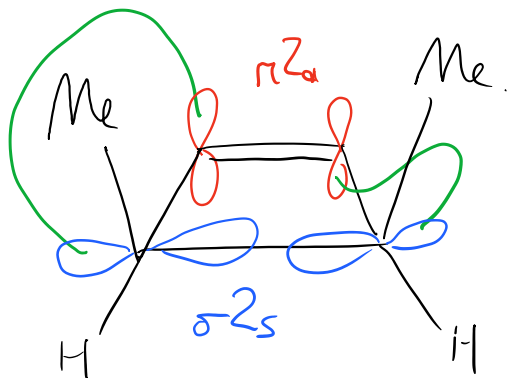


Electrocyclic ring-opening

14 March 2017 13:48



What is the stereochemistry of the alkenes?



Orbitals to consider -

π bond is a $\pi 2$ component.

σ bond being broken is a $\sigma 2$ component

Number of $(4q+2)_s + (4r)_a$ components must be odd \therefore one of the components must be antarafacial and one must be suprafacial, e.g.

Conrotatory electrocyclic ring-opening

