Encapsulation and Reactivity

Note: Trimer formed by the limits of the cage. One isomer of the trimer

Note: Only works well with OEt; OMe cross-coupling less efficient.

Predominantly syn isomer forms

Expt 1. Eq. 1 and DCC and 2(2E) and 3
Because DCC is expelled by A and B the rate of reaction increases with incarceration of the two species

Expt 2. Eq. 1 and DCC and 2(2E) and 3
Rate of reaction increases more slowly because only A displaces DCC

Note: Product exchange, hence catalytic.


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When catalytic amount of 1 is added, reaction below is accelerated (~10^5) and only the shown isomer is formed.

There is product inhibition, however.
