Definition of contraction

$$\begin{array}{ccccccc} A & \longrightarrow & B & \longrightarrow & C & \longrightarrow & D \xrightarrow{f} \tau A[2] \\ \uparrow{\scriptstyle =} & & \uparrow{\scriptstyle =} & & \uparrow & & \uparrow{\scriptstyle f^*} \qquad \uparrow{\scriptstyle =} \\ A & \longrightarrow & B & \longrightarrow & \mathbf{E} & \longrightarrow & A \xrightarrow[\psi]{} \tau A[2] \end{array}$$

where ψ gives the canonical almost split triangle

$$A \to X \to \tau^{-1}A \xrightarrow{\psi} A[1]$$

dual to 1_K under AR-duality (when A is exceptional).

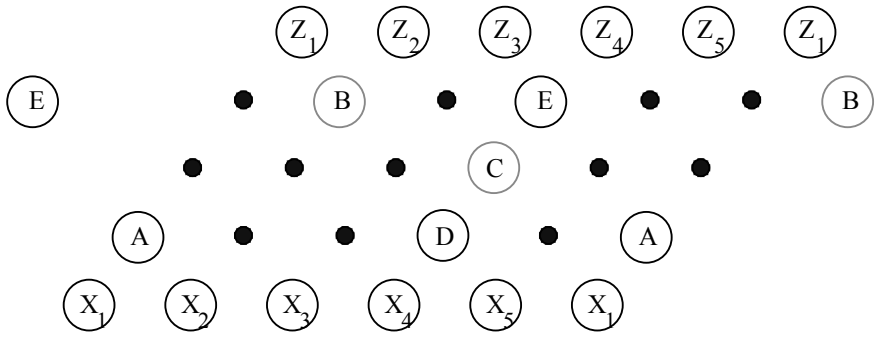
$$Hom(\tau^{-1}A, A[1]) = DEnd(X) = Hom(K, K)$$

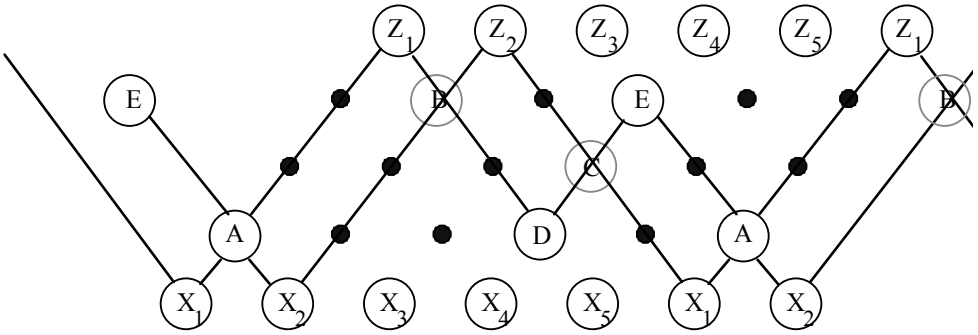
and E is the pull-back in the diagram with inessential components E_0 deleted. ($B \xrightarrow{0} E_0$, $E_0 \xrightarrow{0} C$)

n = 5
m = 2

n-2 = 3

$D^{b}(A_5)/\tau[2]$ spaced-out category





Generalized octagon rule