

v fresh

$$\frac{\begin{array}{l} \Gamma; \mathcal{C}^k; v \rightarrow \sigma^k \vdash^e e_1 : \sigma_a \rightarrow \sigma \rightsquigarrow \mathcal{C}_f \\ \Gamma; \mathcal{C}_f; \sigma_a \vdash^e e_2 : _ \rightsquigarrow \mathcal{C}_a \end{array}}{\Gamma; \mathcal{C}^k; \sigma^k \vdash^e e_1 \ e_2 : \mathcal{C}_a \sigma \rightsquigarrow \mathcal{C}_a}$$

(E.APP_{HM})