```
\begin{array}{l} P \\ extended_2017 extended \ conditional \ independence, which is an otion they define with respect to a Markov kernel. The seconce pt. \\ A^* = \\ A^* = \\ B^* = \\ C^* = \\ C \circ \\ (A, B, C) \end{array}
  \begin{array}{l} C \circ \\ (A,B,C) \\ V = \\ D \circ \\ V = \\ W E^* = \\ W W = \\ (D^*,E^*) \\ P_{\alpha}^W \\ W \in \\ W(\Omega)P_{\alpha}^W(w) > \\ 0 \\ P_{\alpha}^{P,ext} \\ P_{\alpha}^{P,ext} := \\ P_{\alpha}^{P,W} \odot \end{array}
     P^{W}
     P^{\alpha} \stackrel{\circ}{V|W}
     \begin{array}{c} \stackrel{\cdot}{\underset{P,ext}{\cdot}}(B,D)|(C,E) \Longleftrightarrow \\ A_{P_{\alpha}}^{*}(B^{*},D^{*})|(C^{*},E^{*}) \end{array} 
    \begin{array}{l} C \circ \\ V \\ V \\ D^* = \\ W E^* = \\ W \\ V \\ W \\ W = \\ (D^*, E^*) \\ P_{\alpha}^{VW} := \\ P_{\alpha}^{W} \odot \\ P_{\alpha}^{V|W} \end{array}
   P^{\alpha} \stackrel{\odot}{P^{V|W}}
    _{P,ext}^{1}(B,D)|(C,E)\iff
   \begin{array}{l} P_{,ext}(D,D)|(C,E) \\ A_{P}^{*}(B^{*},D^{*})|(C^{*},E^{*}) \\ A_{P_{\alpha}}^{*}(B^{*},D^{*})|(C^{*},E^{*}) \\ P_{\alpha}^{D^{*}}E^{*} \\ Q^{D^{*}}E^{*} \\ (d,e) \in \end{array}
     (D^*, E^*)(\Omega)P_{\alpha}^{D^*E^*}(d, e) >
     \dot{A}_{P,ext}(B,D)|(C,E)
   \begin{array}{l} \beta \\ P_{\beta}^{ABC|DE} = \\ P_{\beta}^{DE} \odot \\ P_{\beta}^{ABC|DE} \end{array} = \begin{array}{l} P_{\beta}^{DE} \odot \\ P_{\beta}^{ABC|DE} \end{array}
    β
 P^{A|BCDE} \atop A^*B^*C^*D^*E^* = P^{D^*E^*}_{\beta} \odot P^{B^*C^*|D^*E^*}_{\beta} \odot \underbrace{P^{A^*|B^*C^*D^*E^*}_{\beta}}_{B^*C^*D^*E^*}
   \underline{\underline{E}}_{\beta}^{B^*C^*D^*E^*} \odot
\underline{\underline{P}}_{\beta}^{A^*|B^*C^*D^*E^*}
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 $(\overset{1}{D} * F*)$