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If  $X - Y \in \Gamma$  and  $\text{ctr} + \vec{\phantom{x}}$

$$\frac{\frac{\Pi_1, \Gamma_1 \Rightarrow 1, 1}{\Pi_1 \quad \Pi_2, \Gamma_1 \Rightarrow \cdot) \Pi_2,} (M) \quad \frac{\Pi_2, \Gamma_2 \Rightarrow 2, 2}{\Pi_2, \Gamma_2 \Rightarrow \cdot) \cdot} (M)}{\frac{\Pi_1 \quad \Pi_2, \Gamma_{121312} )20130 \Gamma)131212 2)11112 ))11100 )131112 ))12 )1130 )13112}{\Pi \quad \Pi, \Gamma \quad \Gamma_2 \Rightarrow \cdot) \cdot} (L)} (\dots)$$

**Ta 1 a: a 2**

$\Pi \quad \Gamma \quad X, \quad \Pi, \Gamma$

$$\frac{\frac{\Pi_1 \quad \Pi, \Gamma_{121312} )20130 \Gamma)131212 2)11112 ))11100 )131112 ))12 )1130 )13112}{\Pi \quad \Pi, \Gamma_{121312} )20130 \Gamma)131212 2)11112 ))11100 )131112 ))12 )1130 )13112} (M) \quad \frac{\Pi_2, \Gamma_2 \Rightarrow 2, 2}{\Pi_2, \Gamma_2 \Rightarrow \cdot) \cdot} (M)}{\frac{\Pi_1 \quad \Pi, \Gamma_{121312} )20130 \Gamma)131212 2)11112 ))11100 )131112 ))12 )1130 )13112}{\Pi \quad \Pi, \Gamma_{121312} )20130 \Gamma)131212 2)11112 ))11100 )131112 ))12 )1130 )13112} (L)} (Y)$$

In this derivation the form:

$$\frac{\Pi_1, \Gamma_1 \Rightarrow \alpha_1, \beta_1 \quad \Pi_2, \Gamma_2 \Rightarrow \alpha_2, \beta_2}{\Pi_1, \Pi_2, \gamma \Rightarrow \alpha, \beta} ( )$$









1. That fact is included under the **H**rn  
implication  $X - Y$  if









$! \Pi x, ! \Sigma x$

### Conclusion remarks

Here we consider non-relativistic  
commutator relations of the normal  
momentum. In [4] it is considered that  
 $H_2LL$ !, -, -