$$M\ddot{i} = \ddot{N} + m\ddot{j} - m\ddot{i}_{BA} = \ddot{N} + m\ddot{g}_{HL} \left(\ddot{g}_{HL} = \ddot{g} - \ddot{i}_{BA} \right)$$

$$\text{Fray: In } \ddot{i}_{A} = \ddot{N} + m\ddot{g}_{HL} \left(\ddot{g}_{HL} = \ddot{g} - \ddot{i}_{BA} \right)$$

$$\tilde{i}_{A} = \ddot{N} + m\ddot{g}_{HL} \left(\ddot{g}_{HL} = \ddot{g} - \ddot{i}_{BA} \right)$$

$$\tilde{i}_{A} = \ddot{N} + m\ddot{g}_{HL} \left(\ddot{g}_{HL} = \ddot{g} - \ddot{i}_{BA} \right)$$

$$\tilde{i}_{A} = \ddot{N} + m\ddot{g}_{HL} \left(\ddot{g}_{HL} = \ddot{g} - \ddot{i}_{BA} \right)$$

$$\tilde{i}_{A} = \ddot{N} + m\ddot{g}_{HL} \left(\ddot{g}_{HL} = \ddot{g} - \ddot{i}_{BA} \right)$$

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$$\tilde{i}_{A} = \ddot{N} + m\ddot{g}_{HL} \left(\ddot{g}_{HL} = \ddot{g} - \ddot{i}_{BA} \right)$$

$$\tilde{i}_{A} = \ddot{i}_{A} + \ddot{i}$$