

# Equations for Moller-Plesset Theory of Order 2

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## 1 Diagram Details

- number of nodes (order) is 2
- number of diagrams in order is 1
- number of node pairs per diagram is 1
- number of connections (lines) per diagram is 4

## 2 Equations

$$(4) \rightarrow (2) \uparrow \quad (2) \downarrow$$

$$(-1)^{2+2} (2)^{-2} \frac{\langle ab||ij \rangle \langle ij||ab \rangle}{(\epsilon_i + \epsilon_j - \epsilon_a - \epsilon_b)}$$