3. Feynman Calculus
3.4 Higher-order Diagrams
Beyond lowest-order

- Consider $A+A \rightarrow B+B$ in our toy theory with three particle and a primitive vertex:

- The lowest-order (leading-order or tree-level) diagram:
Higher-order diagrams

- Self-energy diagrams (5)
Higher-order diagrams

- Vertex correction diagrams (2)
Higher-order diagrams

- Box diagrams (1)