\[ \nu_i = 4, \mu_i = 6 \]

\[ \mu_j^{\text{new}} = \nu_j \]

\[ \nu_j^{\text{new}} = \nu_j - \nu_j = 8 - 4 = 4 \]

\[ \nu_i^{\text{new}} = \nu_i \]

\[ \mu_i^{\text{new}} = \mu_i + \mu_j = 15 \]

Collection occurs only, if \( p_{\text{crit}} = \frac{\nu_{\text{coll}}}{\nu_i} > \text{rand()} \)

**Before**

4 droplets of mass \( \mu_i \)
8 droplets of mass \( \mu_j \)

Collection of \( \nu_{\text{coll}} = 2 \) droplets

**After**

2 droplets of mass \( \mu_i = 6 \)
6 droplets of mass \( \mu_j = 9 \)
2 droplets of mass \( \mu_i + \mu_j = 15 \)

**AON algorithm**

i-j-combination with \( \nu_i < \nu_j \)

SIP i

\[ \nu_i = 4, \mu_i = 6 \]

SIP j

\[ \nu_j = 8, \mu_j = 9 \]

Collection occurs only, if \( p_{\text{crit}} = \frac{\nu_{\text{coll}}}{\nu_i} > \text{rand()} \)