$$N_{\mathrm{e}} \sum_{i \neq p} C_{ip} N_{i} = N_{\mathrm{e}} N_{p} \sum_{i \neq p} C_{pi} + N_{p} \sum_{i < p} A_{pi}$$

$$\downarrow \qquad \qquad \downarrow \qquad \qquad \qquad$$