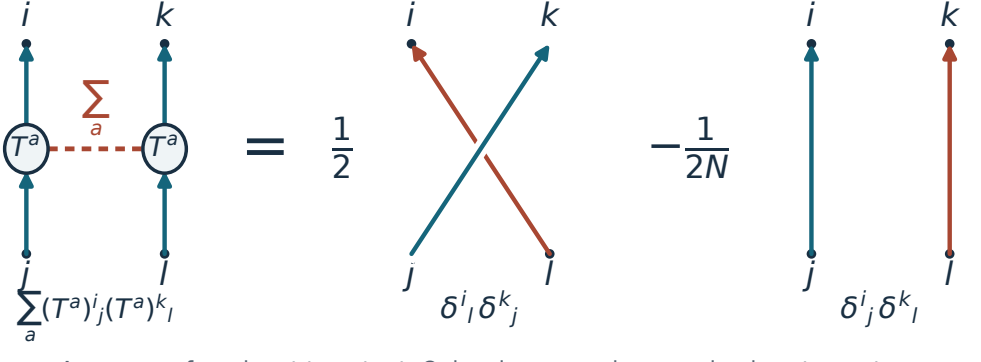
Fundamental color completeness

$$N \geq 2, \qquad \mathrm{Tr}(T^a T^b) = \delta^{ab}/2$$



Arrows run from input to output. Only a is summed; a crossing is not a vertex.