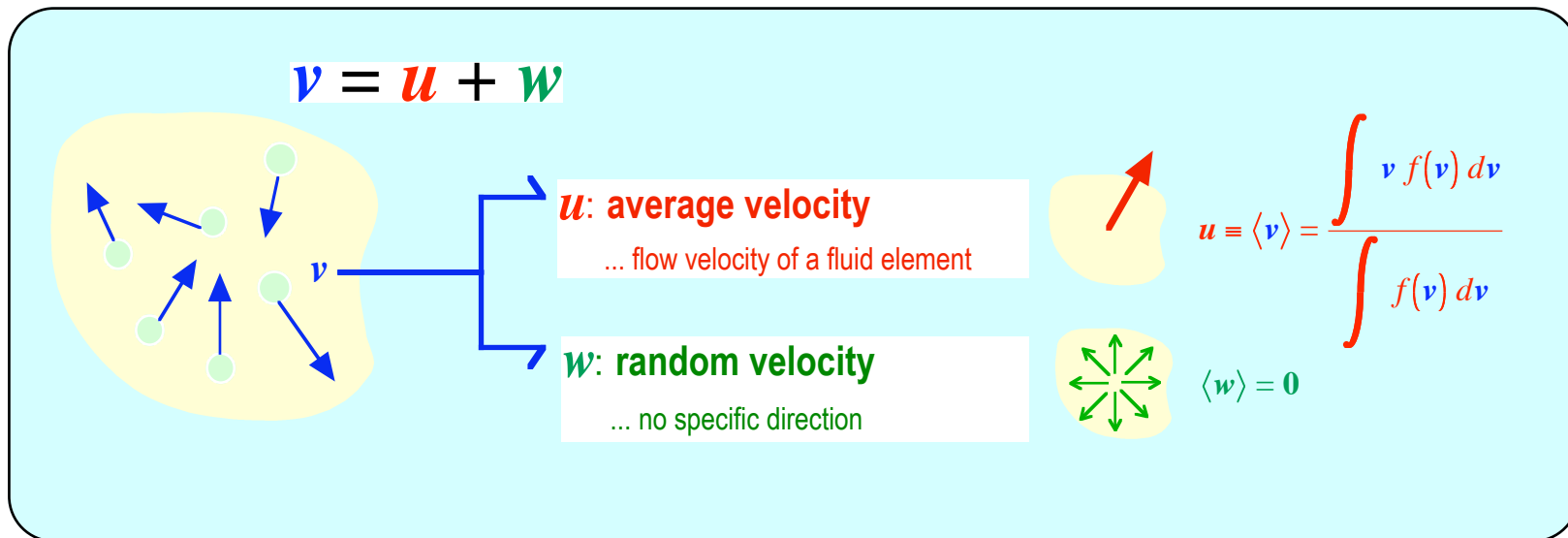


Average of Boltzmann's equation based on Maxwellian distribution function

from particle to fluid element

Average velocity

The velocity of each particle in a fluid element is divided into **average velocity u** and **random velocity w** (in fact, density and average velocity can be determined from any distribution function; not necessarily assuming Maxwellian distribution function).



From Boltzmann's equation to fluid dynamics equations (overview)

