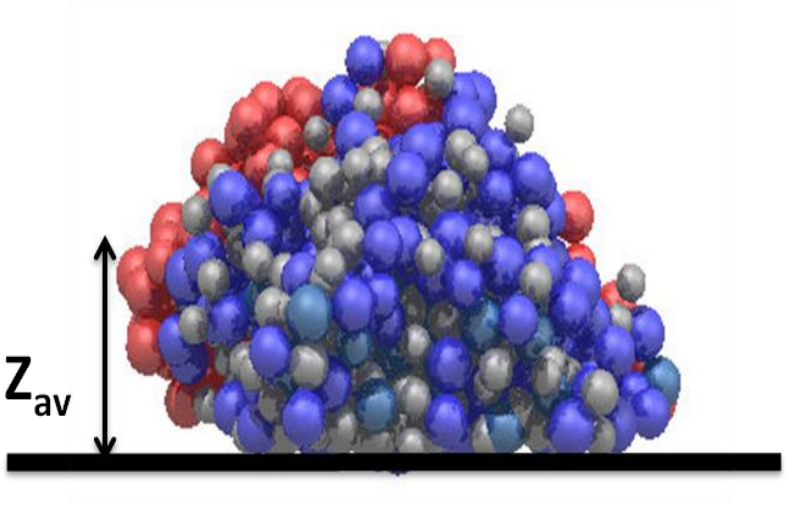
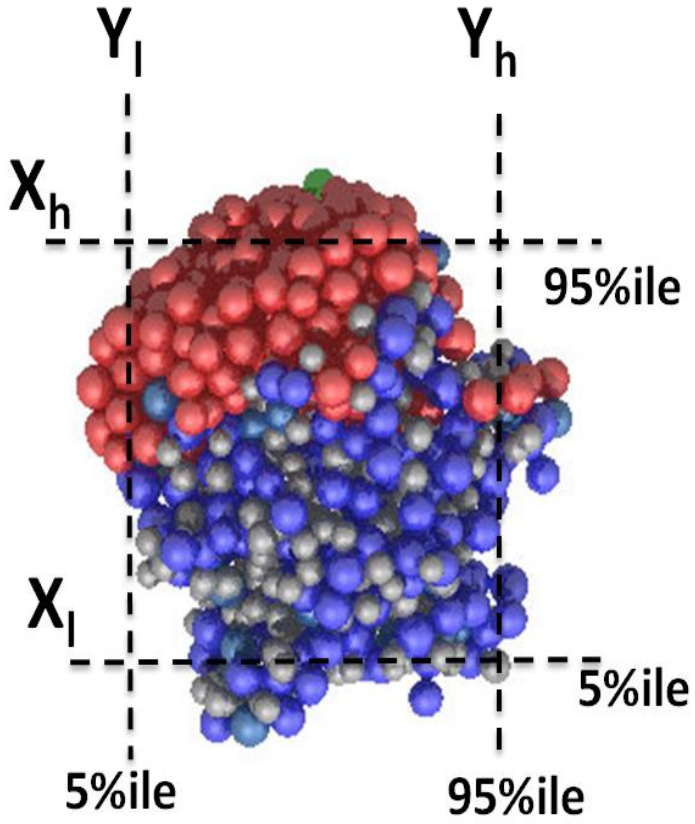


Z_{av} as a function of time is calculated as weighted mass mean of the particles present at time t.

$$Z_j^{av} = \frac{\sum_{i=1}^{N} m_{ij} z_{ij}}{\sum_{i=1}^{N} m_{ij}}$$



X_l = mean of the 5%ile particle coordinates

X_h = mean of the 95%ile particle coordinates

$$X_{span} = X_h - X_l$$

$$Span = (X_{span} + Y_{span})0.5$$