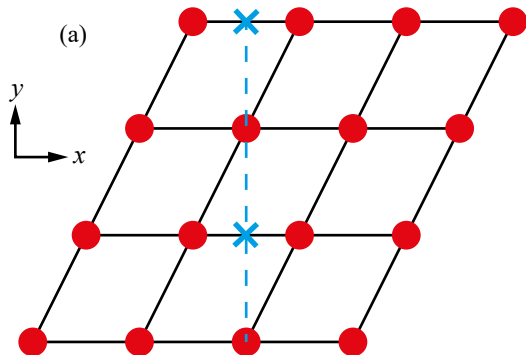
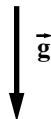
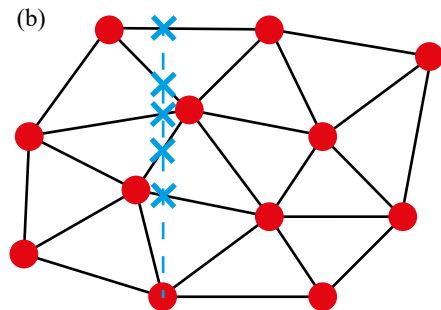


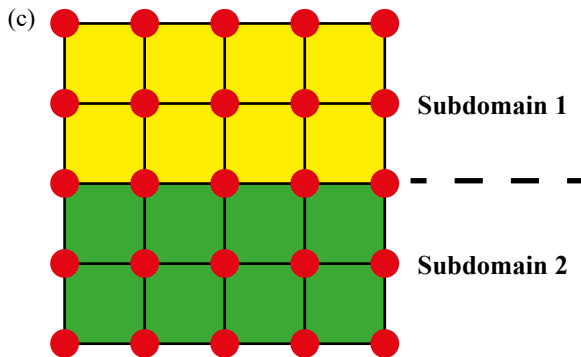
Grid not aligned with gravity acceleration vector



Unstructured mesh



Parallel grid decomposition



Grid nodes



Grid representation



Path along which the integration must be performed
(aligned with gravity acceleration vector)



Off node location at which density needs to be evaluated
for the integration (also requires to evaluate coordinates
of these points)