## Saturday, September 12, 2020 10:45 PM Stored in Memory: (Mesh node • (i,j) node position $(X_i, Z_j)$ node material max (i,j)The interface & surface are not stored Resolution = dist btw 2 nodes # of nodes = width/res node position is at half res In the view of particle e.g. (a.5, b.5) • Vac Plot Point plot Image plot Shape plot Volume of nodes 1 Dense Moderial When particle enters the "material block" it will hit the node SiO2 ptcl is mapped to the neavest node assume particle position (x, z) Santicle hits the nocle at (i,j) = Yound((x,z))Coarse Material Particle is able to penetrate into mat Since the node $\odot \odot \odot$ Volumes do not Overlap. i) Find the nearest nocle (i,j) ii) calc the dist btw node (i,j) and ptcl position ( x, y) iii) dist > \gamma -> no hit

 $dist < \gamma \longrightarrow Yes hit$ 

Mesh and Mapping