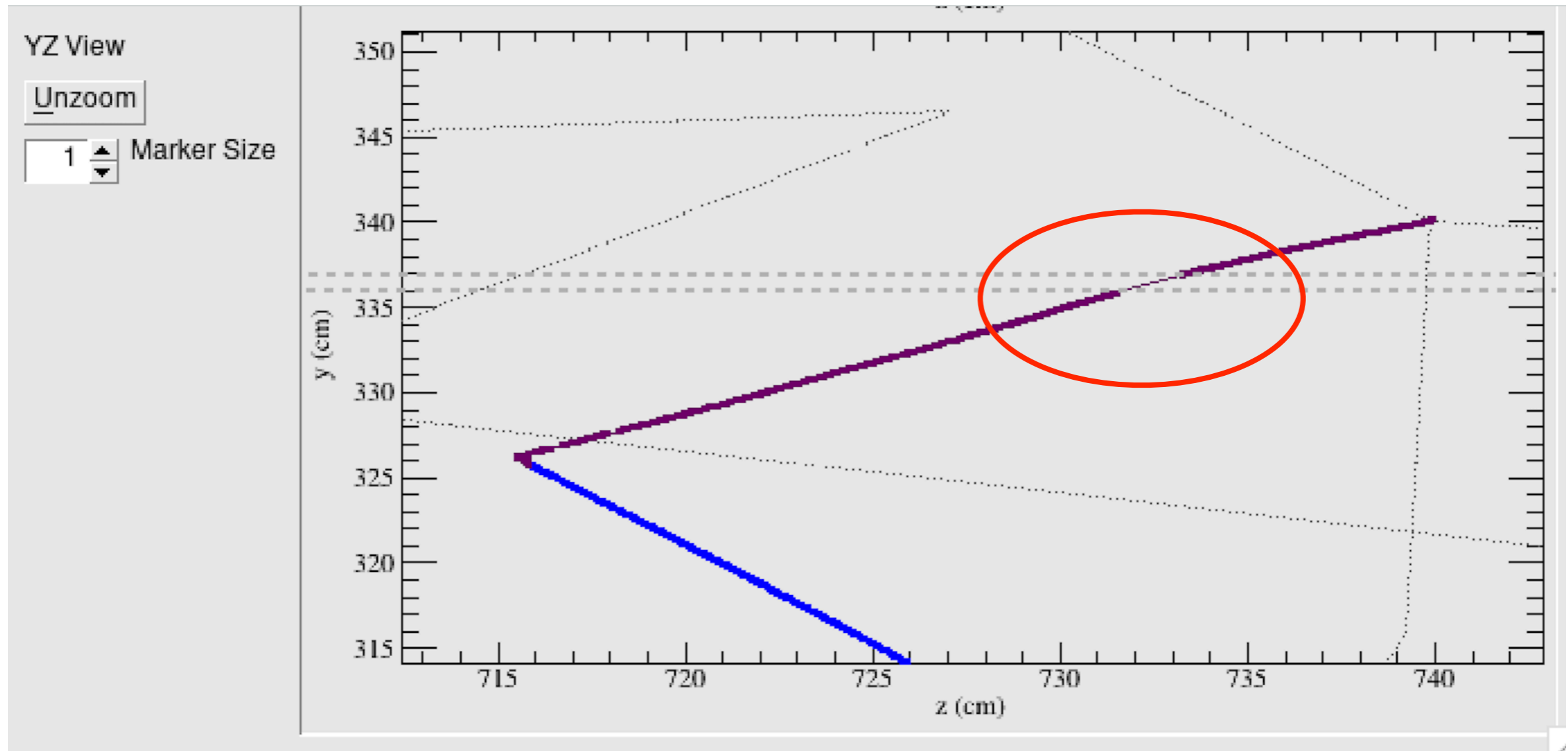


Status report

13 November 2023

Context

- Working on the neutrino energy reconstruction, starting from basic MC information on, we came across to the issue of energy lost between CRP.



Status and work to be done

- The actual gap in the MC simulation is 5 mm.
- Real life is different and from discussions with Dario and Slavic (Dominique can you confirm?) we have:
 - gap between 2 CRP = 6mm (dead edge of each CRP) x 2 + 4mm (gap between CRPs) = 16mm
 - gap between super structures = 2 x 6mm (dead edge of each CRP) + 20mm (gap between CRPs) = 32mm
- To do:
 - Include real geometry in next MC production (mid 2024)
 - Check with a COMSOL simulation what happens in real life to charge between CRPs... maybe the edge channels will see part of this charge
 - Evaluate the gap impact in articular for EM showers