The confact mode rapidly fluctuates between {13 and 223 as the particle funnels towards the intersection. Because of this constraint switching, it is imported impulse whenver it leaves a constraint. This causes Zeno poradox, where it is losing energy continuously but it can satisfy conditions for transfer into {1,23. As it loses energy, post-impact velocity appropaches zero, and it will enter contact mode slightly past the constraint. Then with enough past-impact velocity to return to satisfy a (g) =0, there are no more impact events and gravity pulls the particle down to the constraint.

As we reduce time steps, the algorithm approaches zeno-paradox - ieinfinite transitions in finite time. But it eventually settles to steady state contact mode {1,2} In the event based approach, it connot handle this paradox and it breaks down plowerer, the time-Stepping also also gives transitions that are not possible like [1,2] -> [1] and [1,2] -> [2]. This happens because we relaxed our constraints which do not include impulse forces over a time step.