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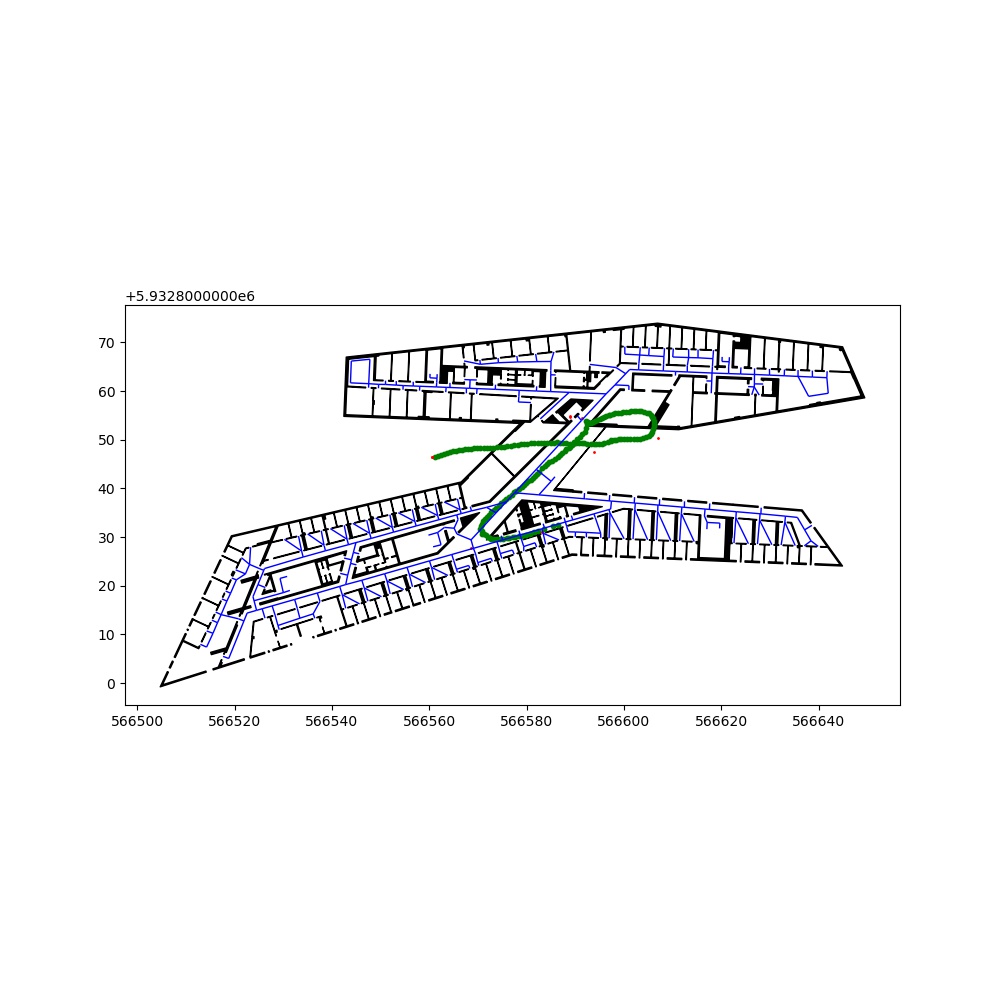
## **1 Only Backtracking (only walls), no routing**

No reinitializing/readjusting of particles when floor changes

### **Zerotofour**

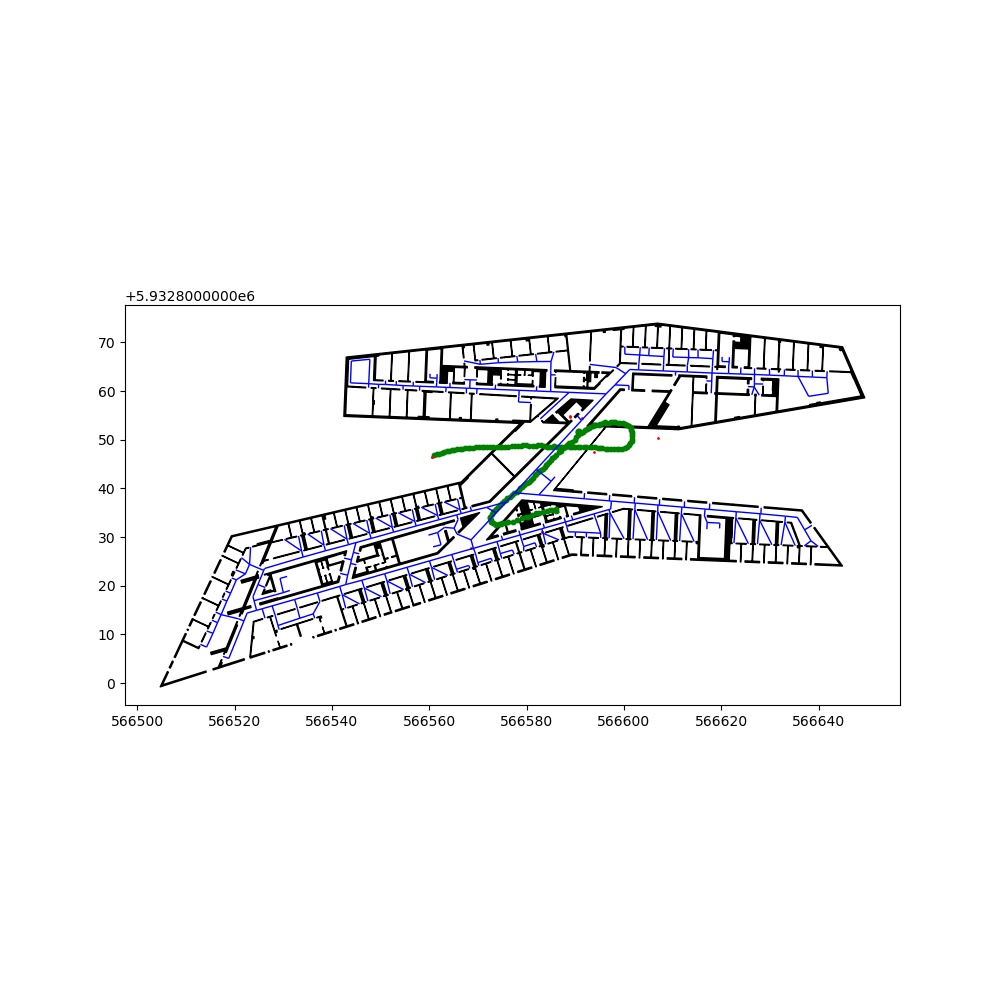
0.2 step correction

Run time (whole): 203s



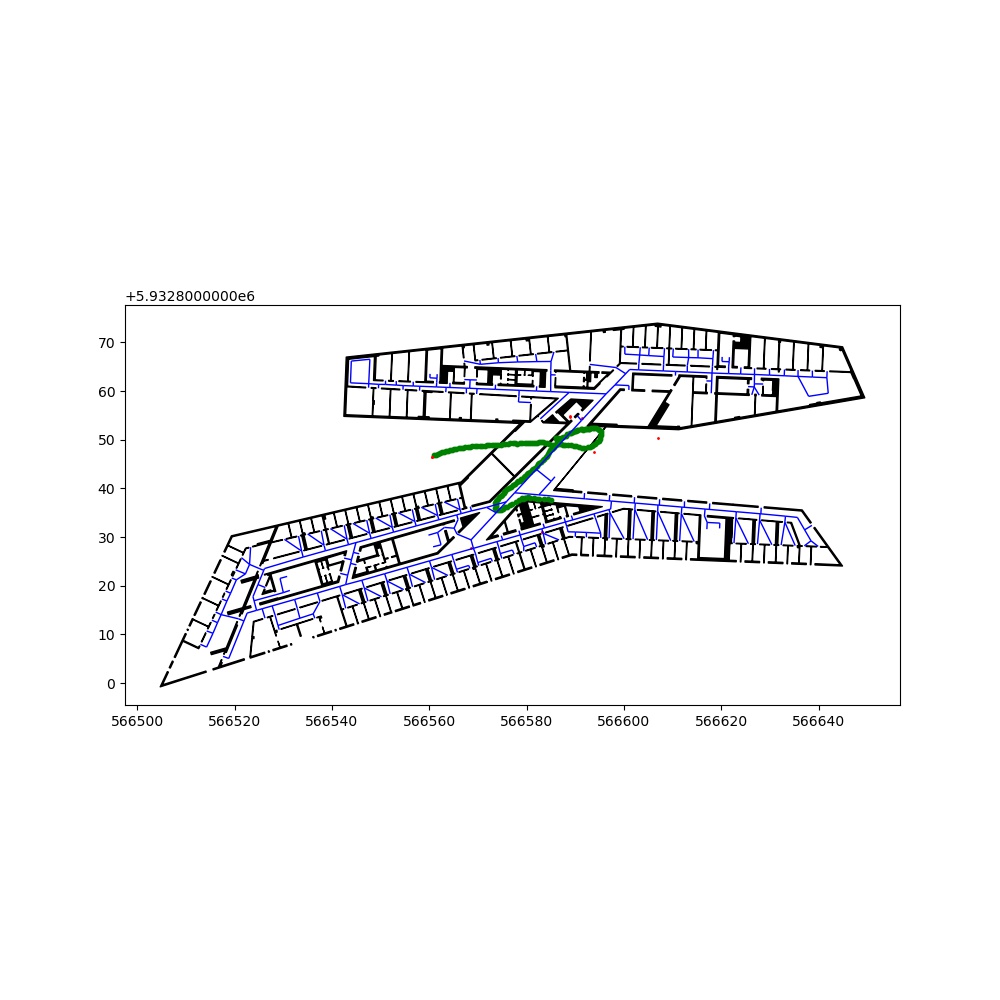
0.1 step correction

Run time (whole): 184s



0 step correction

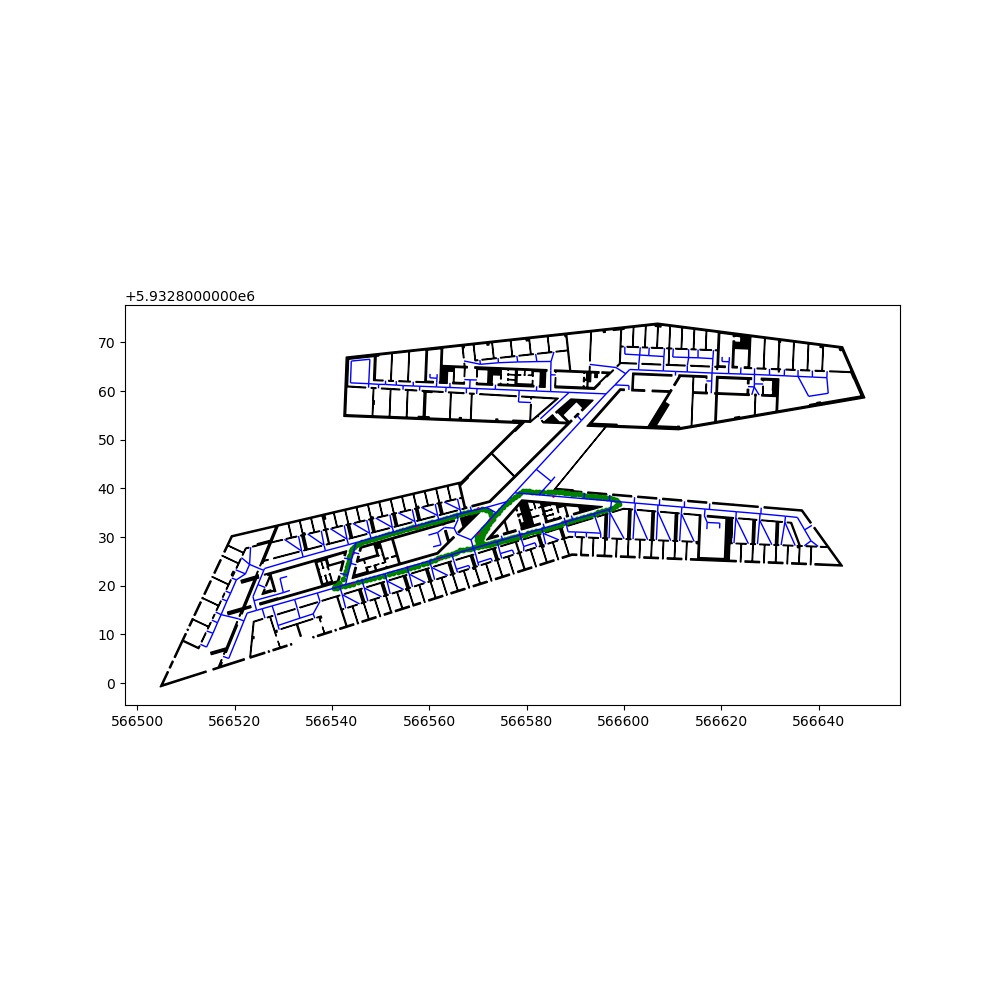
Run time (whole): 162s



### **eight**

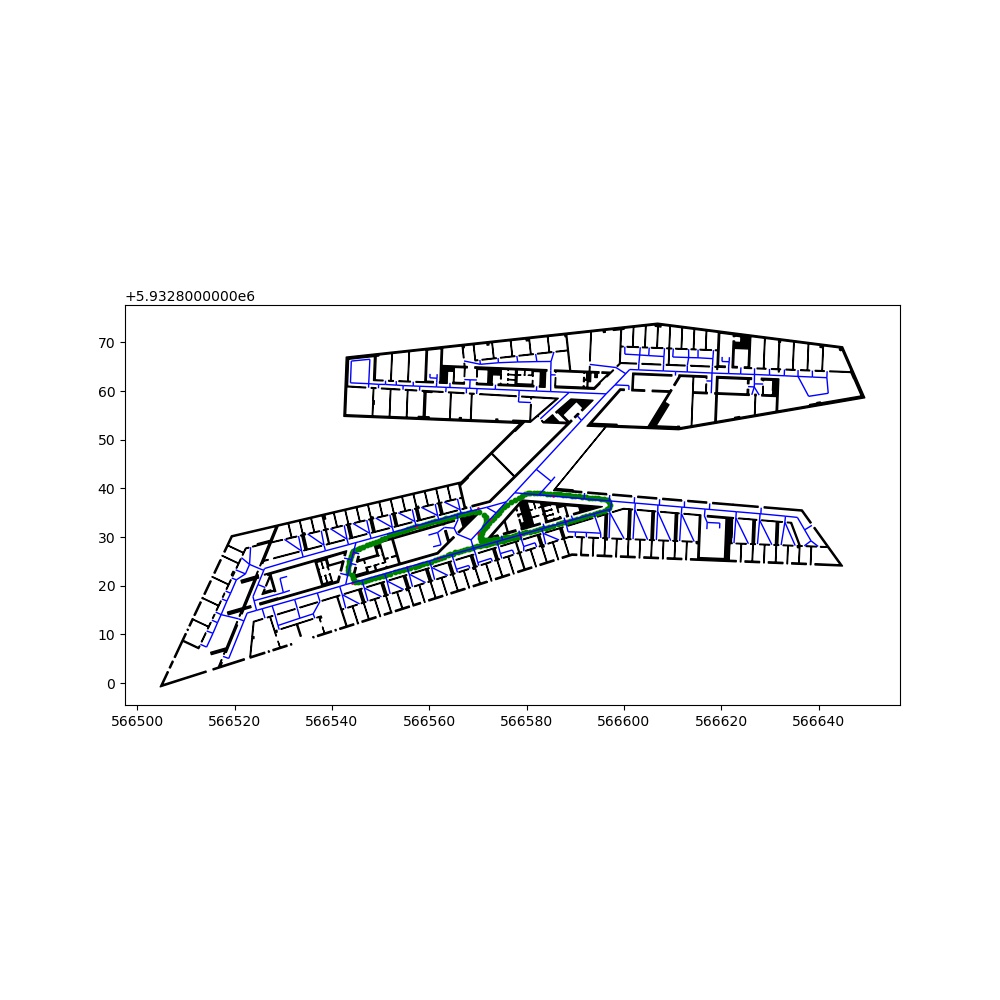
0.1 step correction

Run time (whole): 436s



0.0 step correction

Run time (whole): 495s



## **2 Backtracking only routing (no walls)**

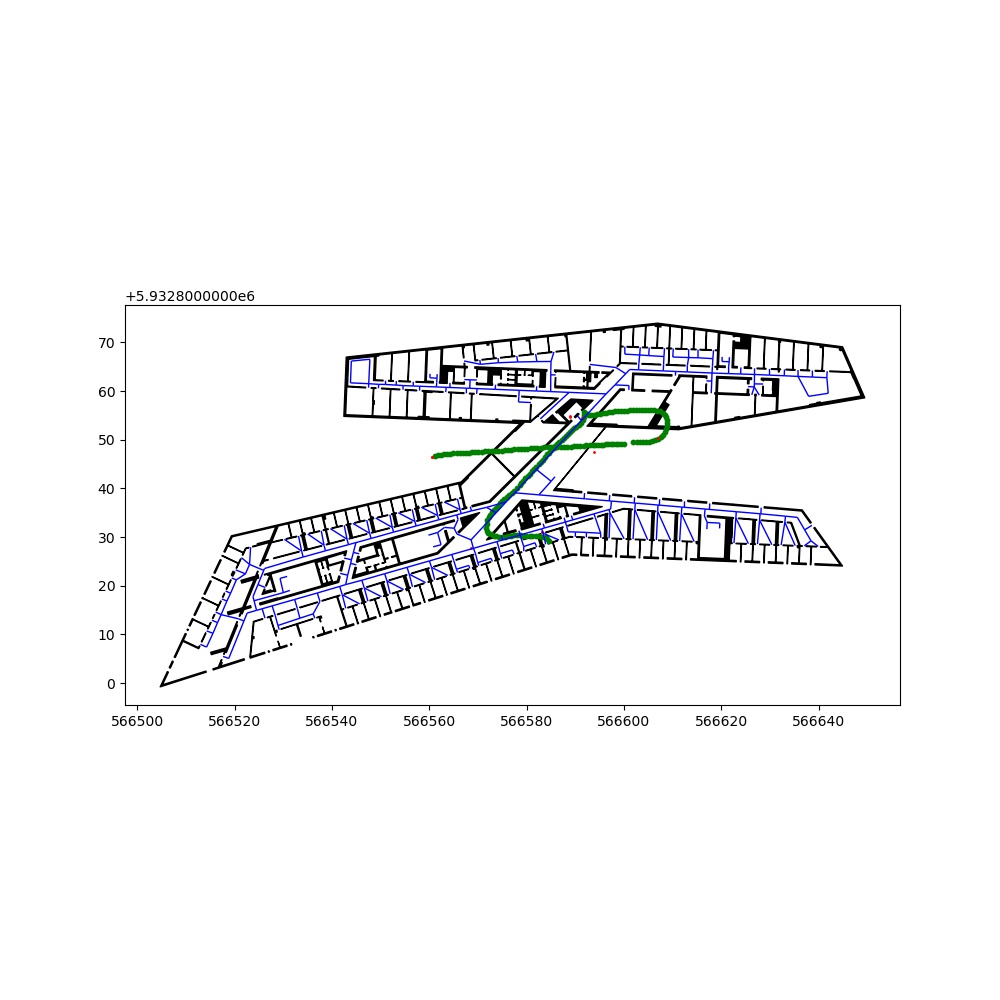
No reinitializing/readjusting of particles when floor changes

### **Zerotofour**

0.2 step correction

2m routing edge distance threshold

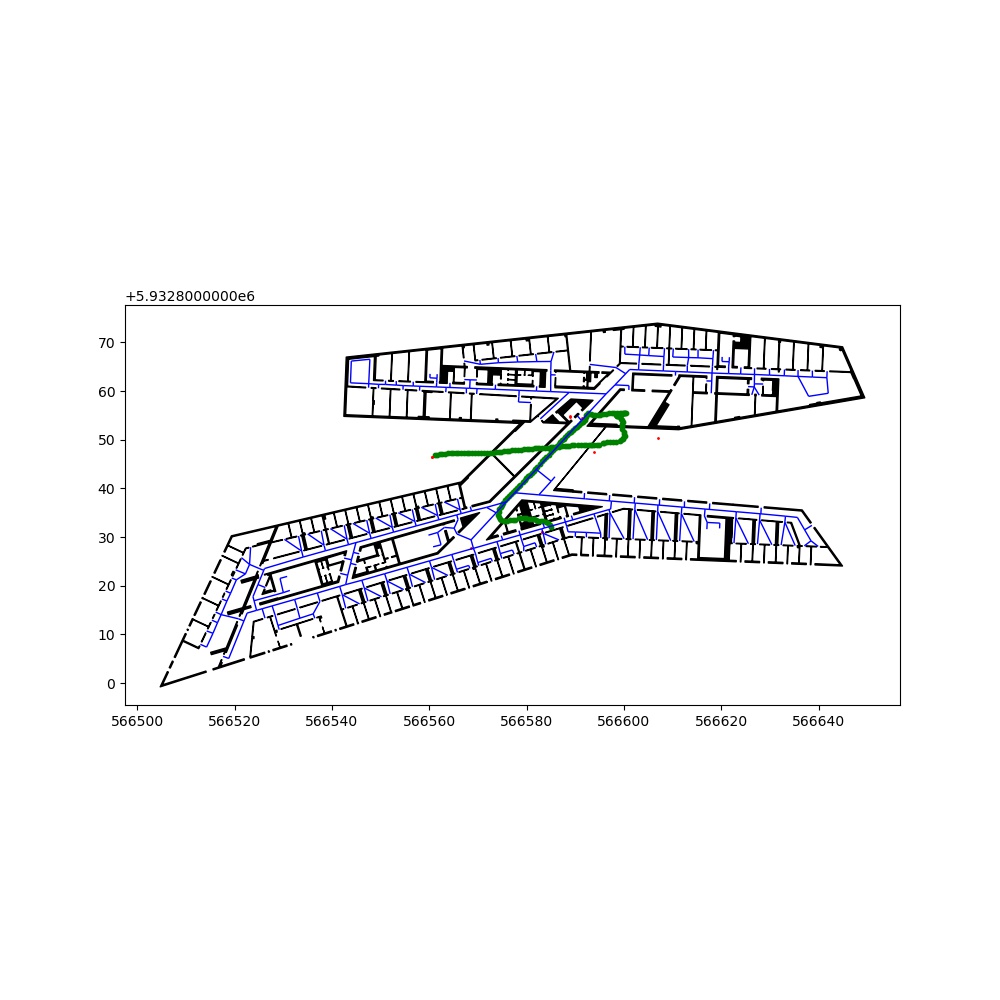
Run time (whole): 147s



0.1 step correction

2m routing edge distance threshold

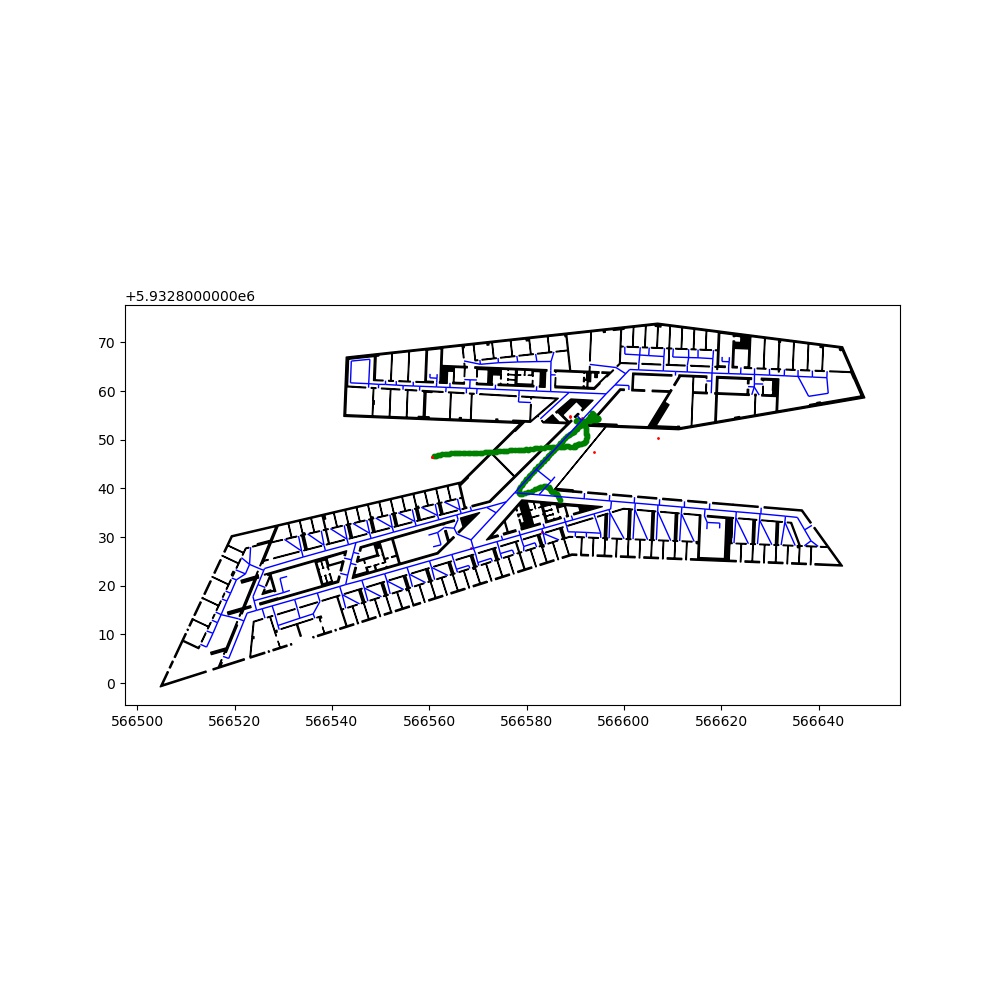
Run time (whole): 180s



0 step correction

2m routing edge distance threshold

Run time (whole): 149s

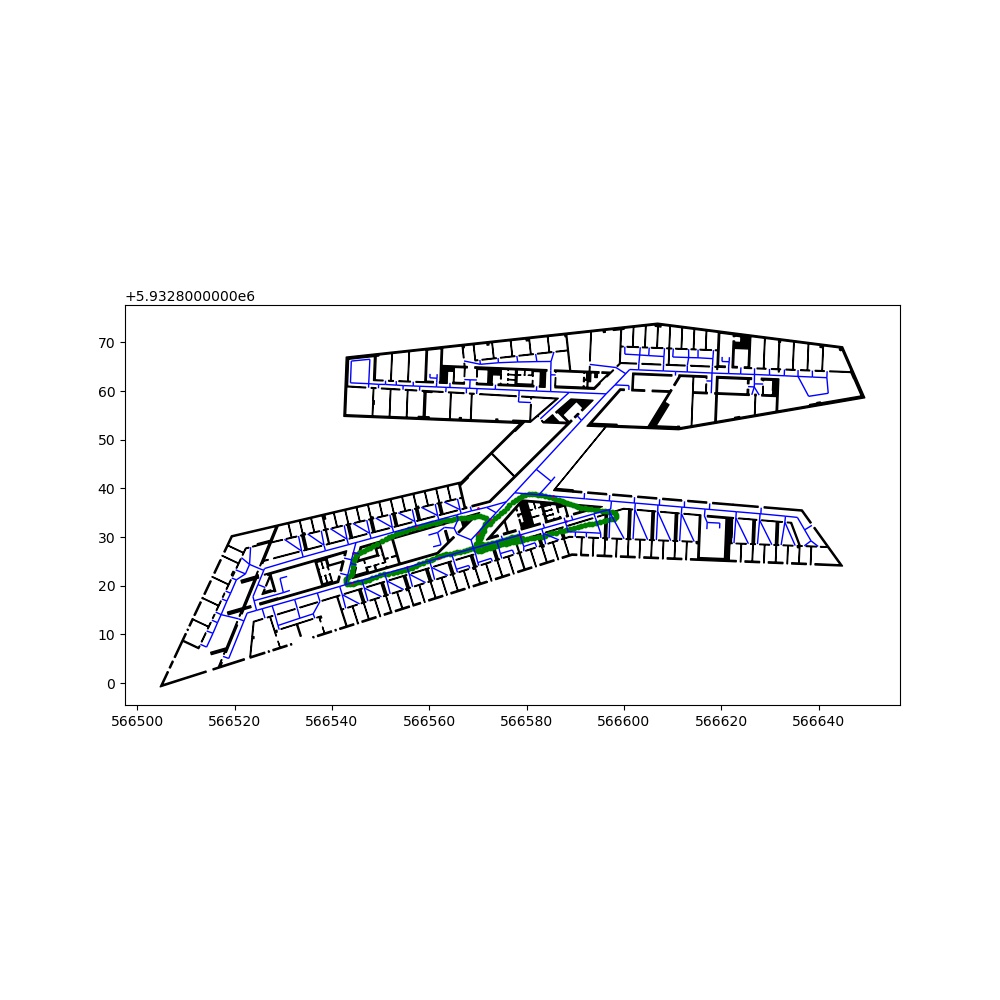


### **eight**

0.1 step correction

2m routing edge distance threshold

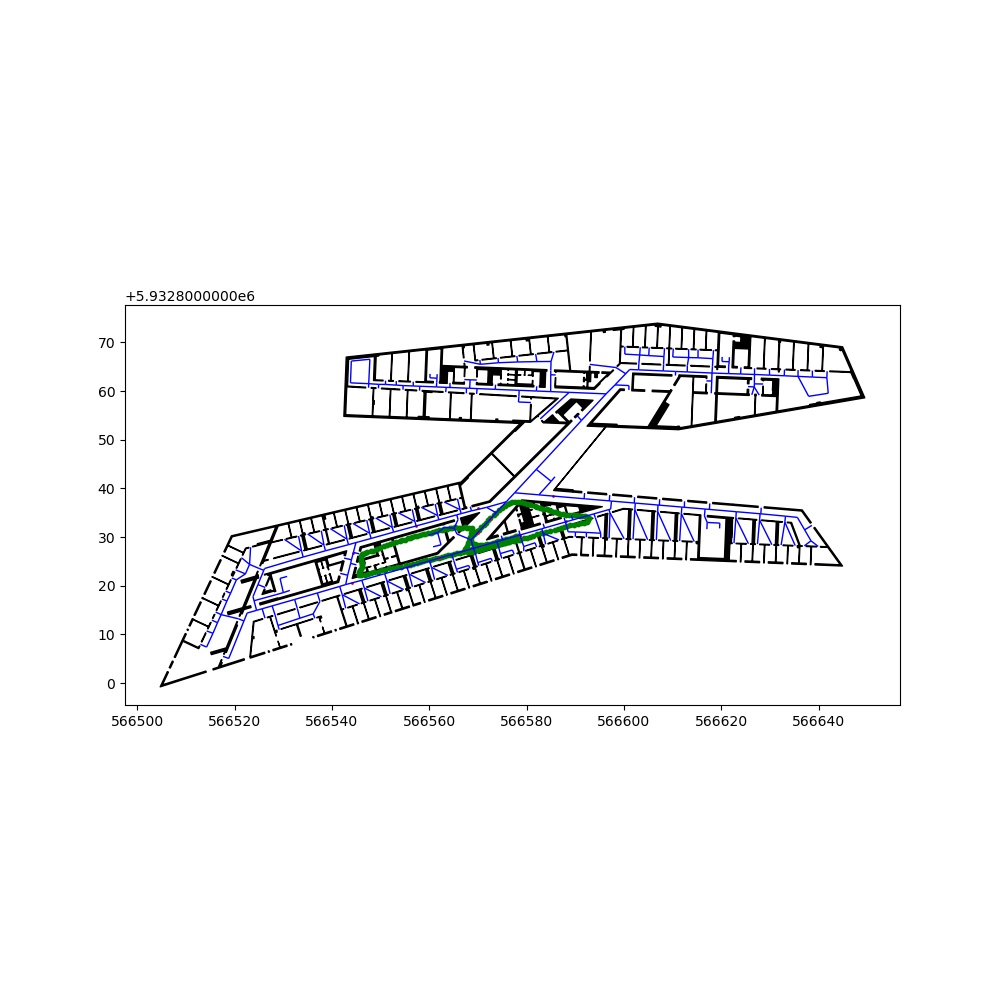
Run time (whole): 233s



0 step correction

2m routing edge distance threshold

Run time (whole): 178s



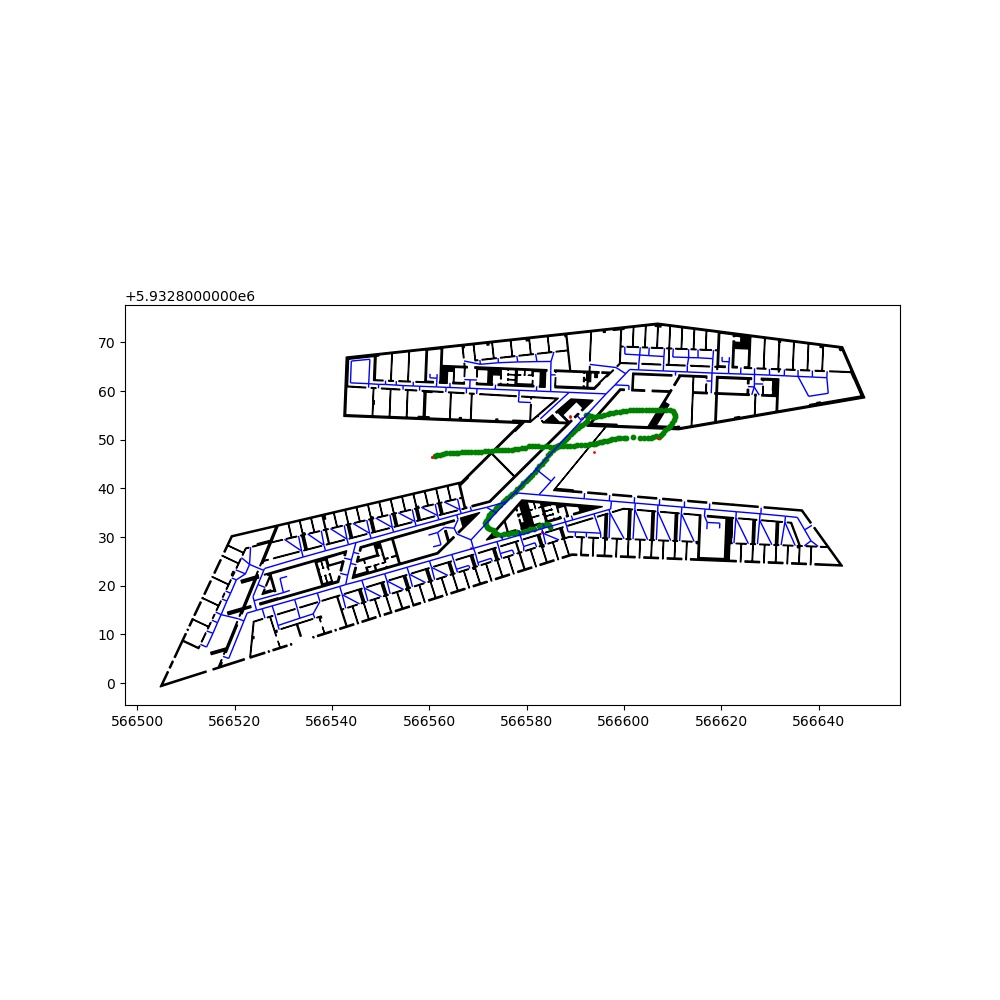
## **3 Backtracking (walls) with weighting by routing and resampling**

No reinitializing/readjusting of particles when floor changes

### **Zerotofour**

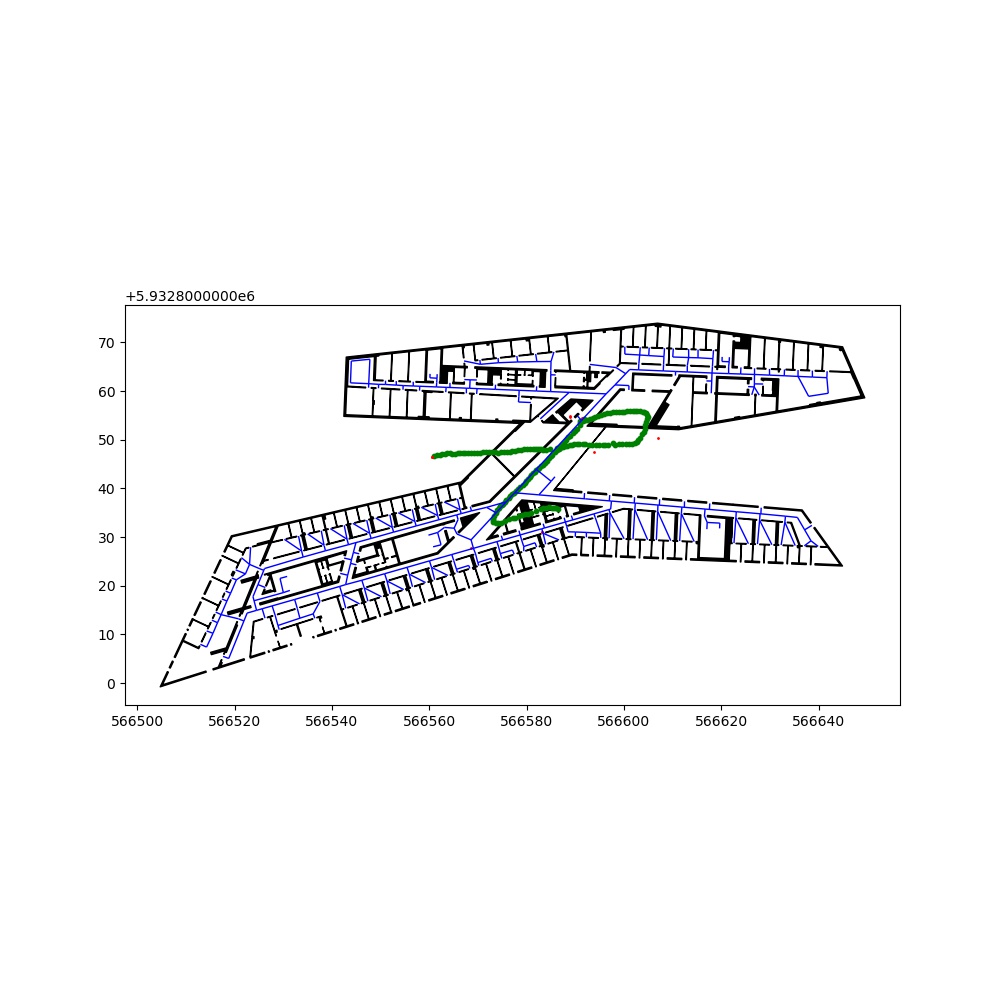
0.2 step correction

Run time (whole): 215s



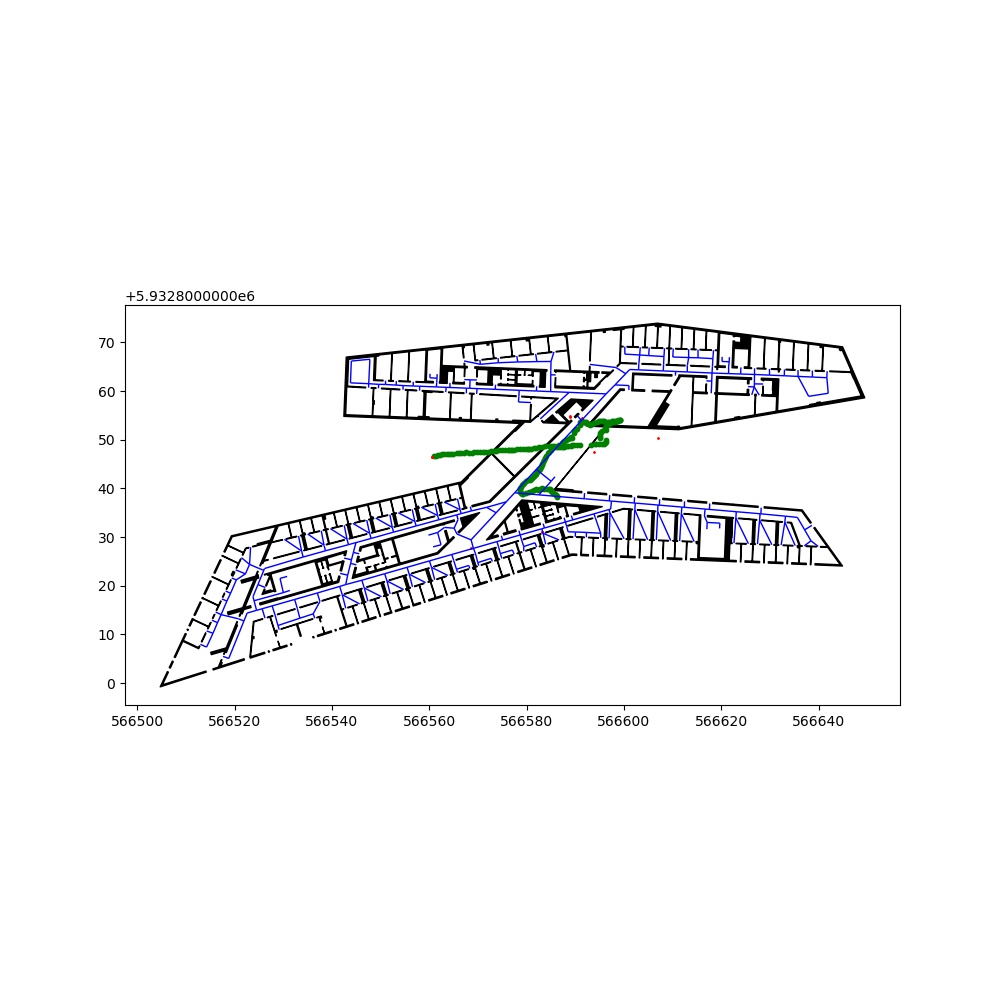
0.1 step correction

Run time (whole): 200s



0 step correction

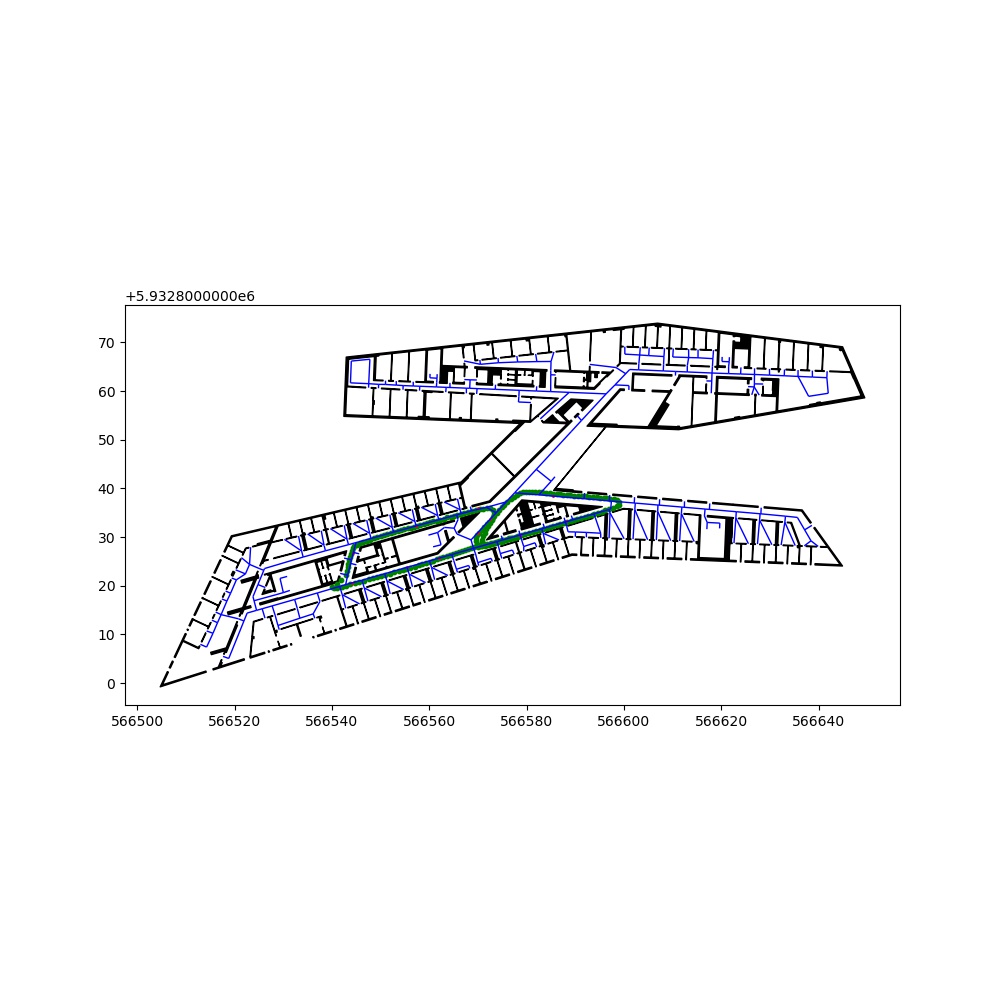
Run time (whole): 200s



### **eight**

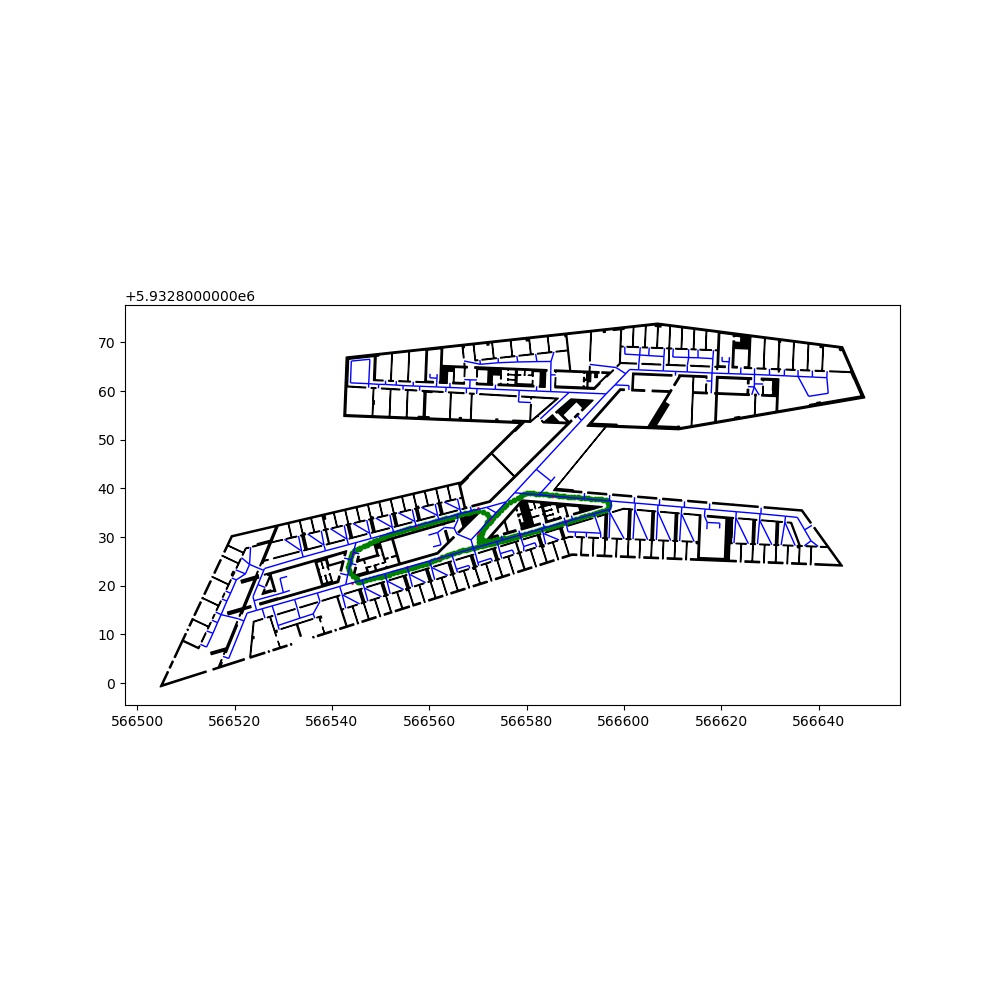
0.1 step correction

Run time (whole): 485s



0 step correction

Run time (whole): 442s



## **4 Backtracking (room concept)**

Particles are valid if they are in corridor,lift or staircase (or door)

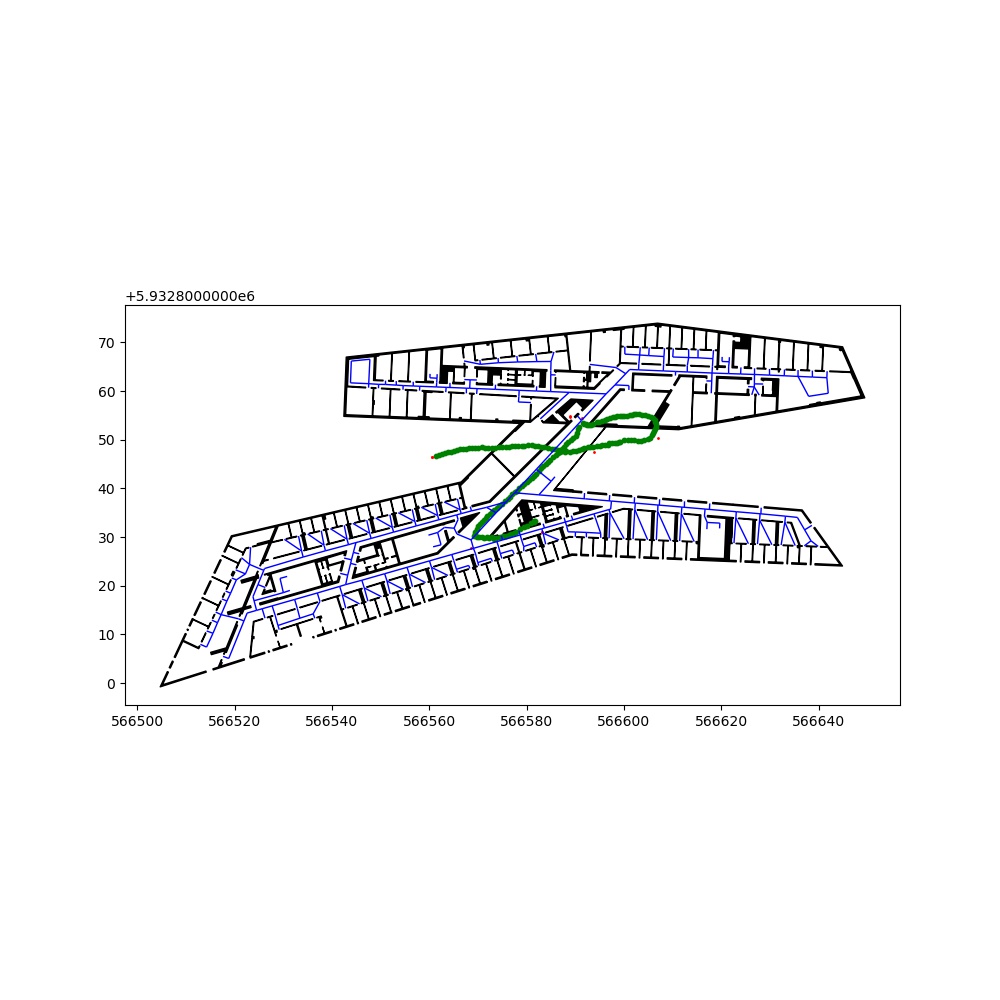
Crossing of walls is not considered

No reinitializing/readjusting of particles when floor changes

### **Zerotofour**

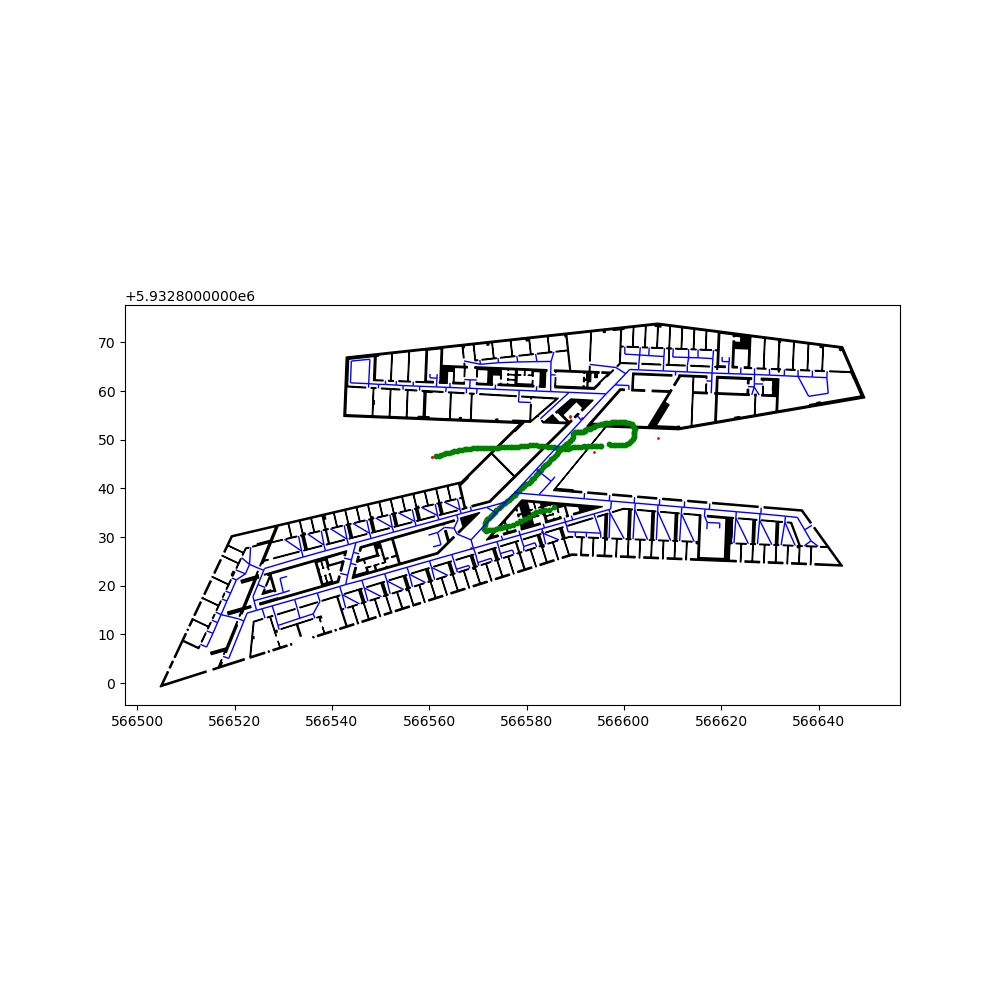
0.2 step correction

Run time (whole): 89s



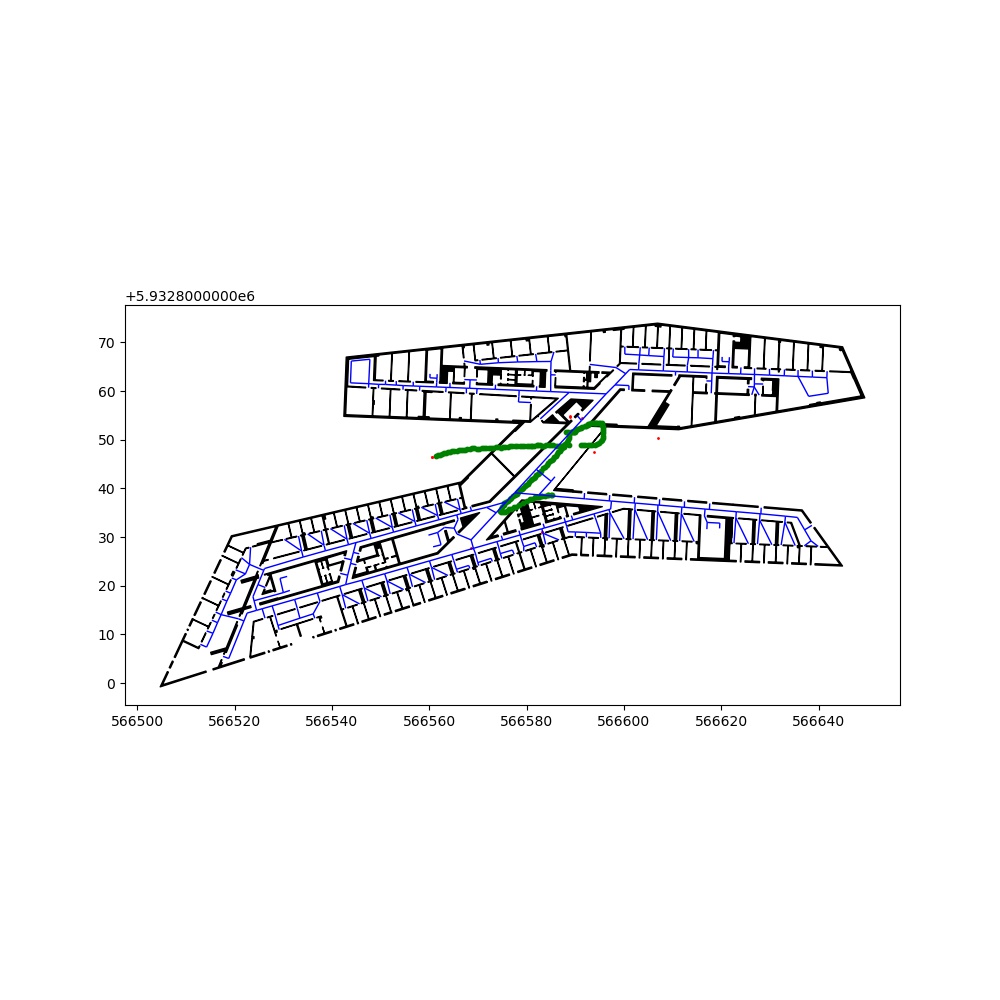
0.1 step correction

Run time (whole): 93s



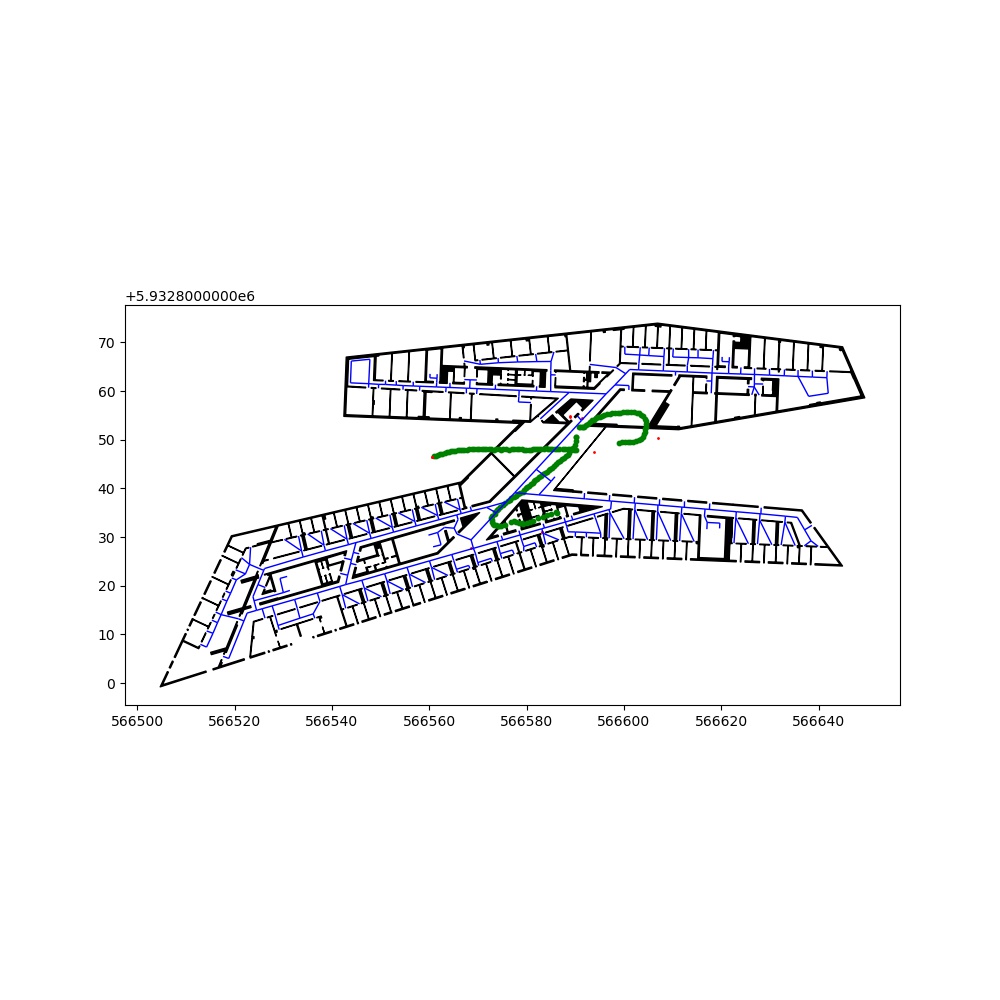
0 step correction

Run time (whole): 101s



## **5 Backtracking (walls) updating the stepscale**

With every floorchange only particles in transition zones considered and the scale for the stepcorrrection is increased by the meanof all particle scales



### **Zerotofour**

0 step correction

Run time (whole): 189s