## Ex09:

## Task 1:

As seen in fig 1 on page 2 the simulated values (black solid line) for <R^2> lie really nice on the theoretical values (red dotted line). For an error of <= 1%, there are around 10'000 runs needed, as can seen on fig 2 on page 3.

## Task 2:

in fig 3 on page 4 we can clearly see, that more distance is covered compared to the regular random walk. This is not much of a surprise, since the constraint of the non overlapping spheres leads to a bigger probabilitz of forward directions being chosen compared to going backwards, where the forbidden zone is.





