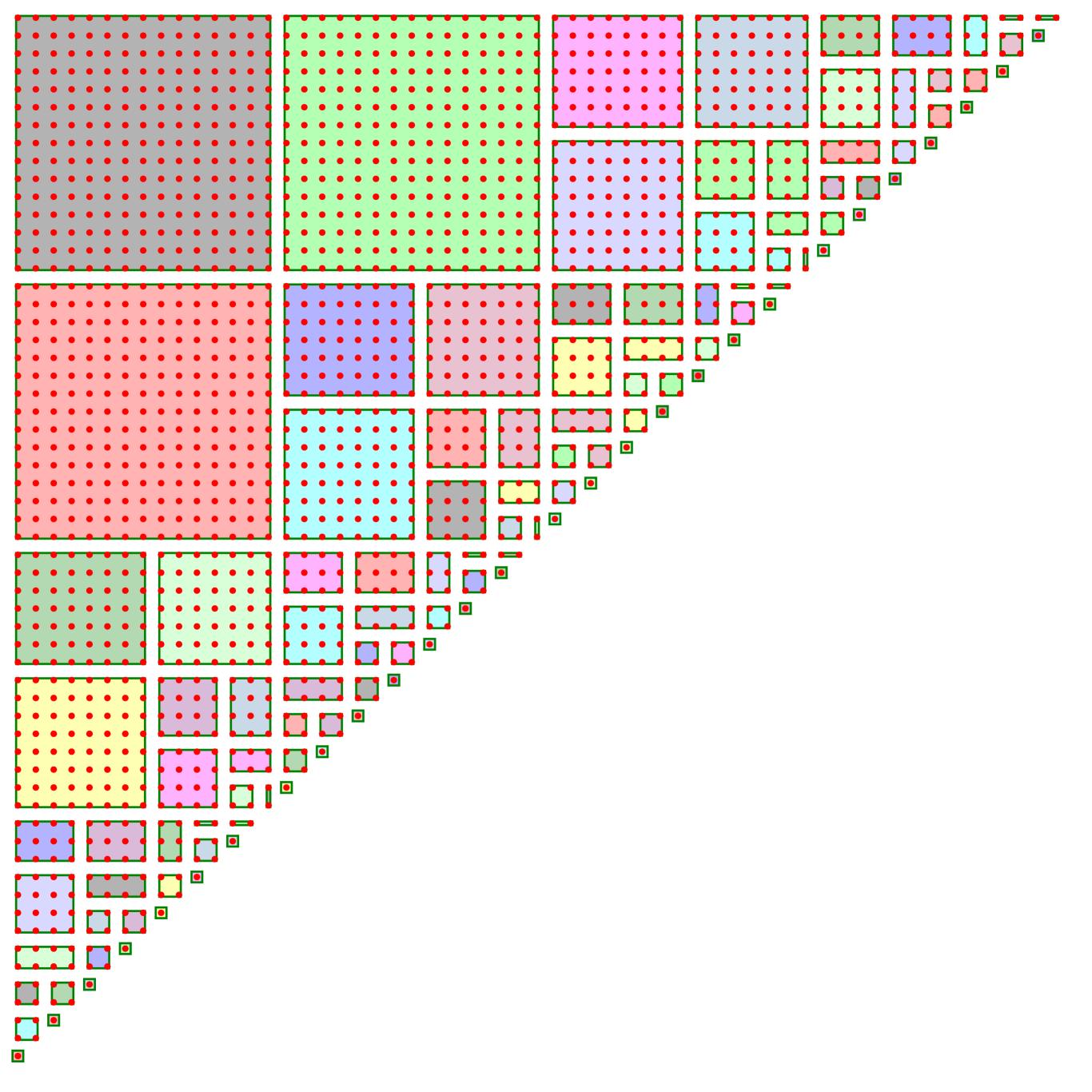
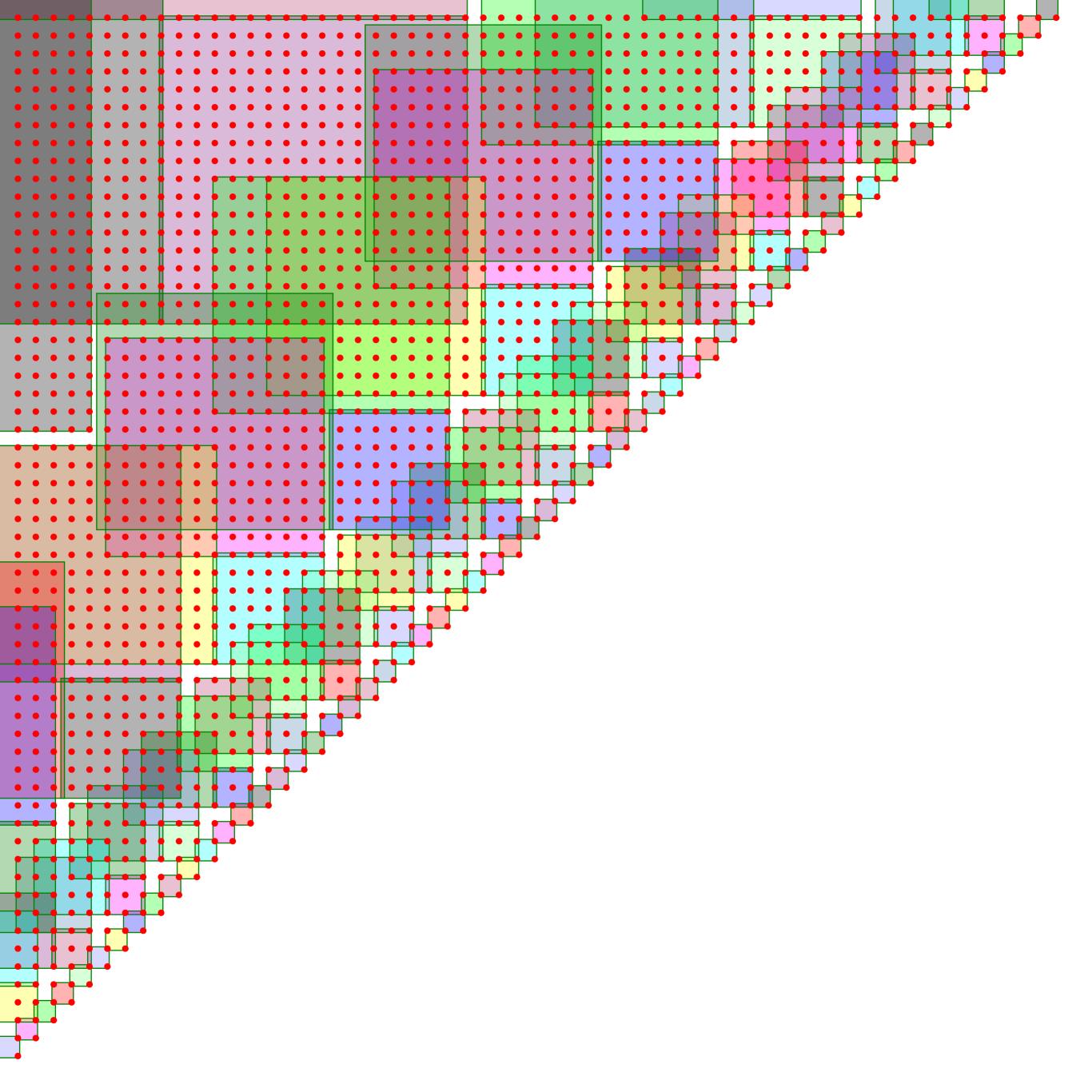
```
WSPD cover
n = 60
ε = 1
N = 1770 (# of grid points)
|WSPD| = 122
```

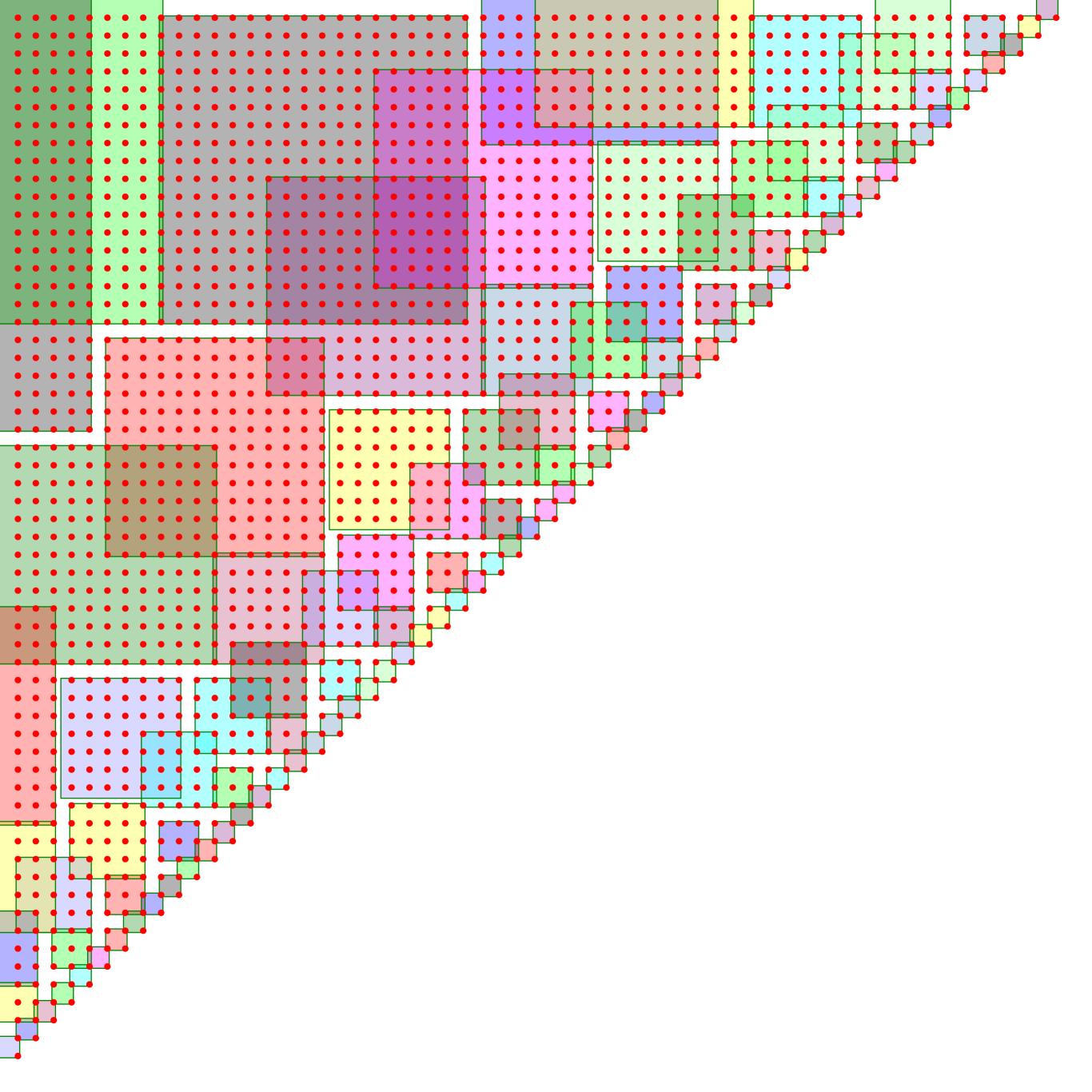


3 approx cover n = 60 |3-approx| = 139



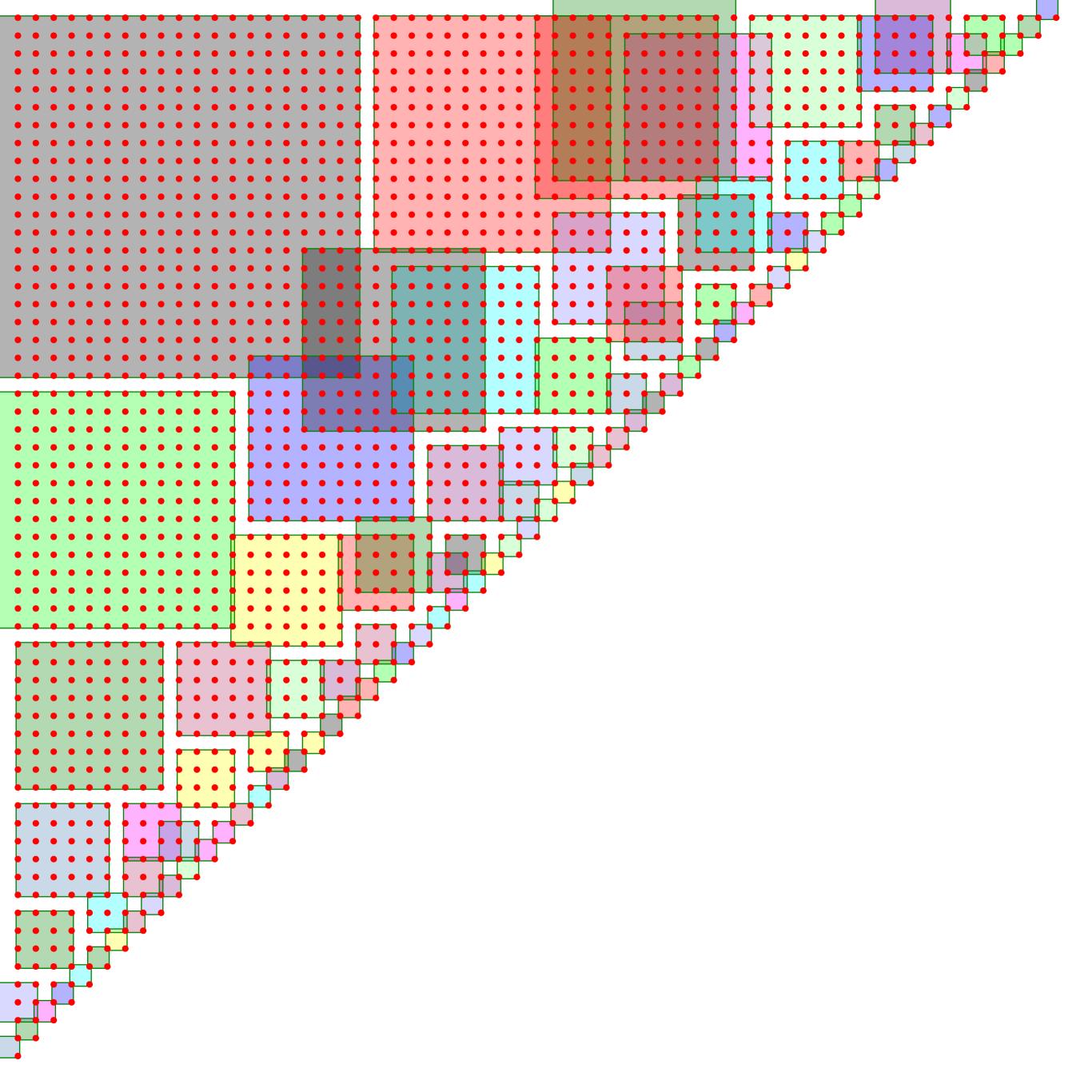
3 approx cover (clean)
n = 60
|3-approx-clean| = 113
Cleaning is done using greedy cover on th

Cleaning is done using greedy cover on the 3-approx solution computed.



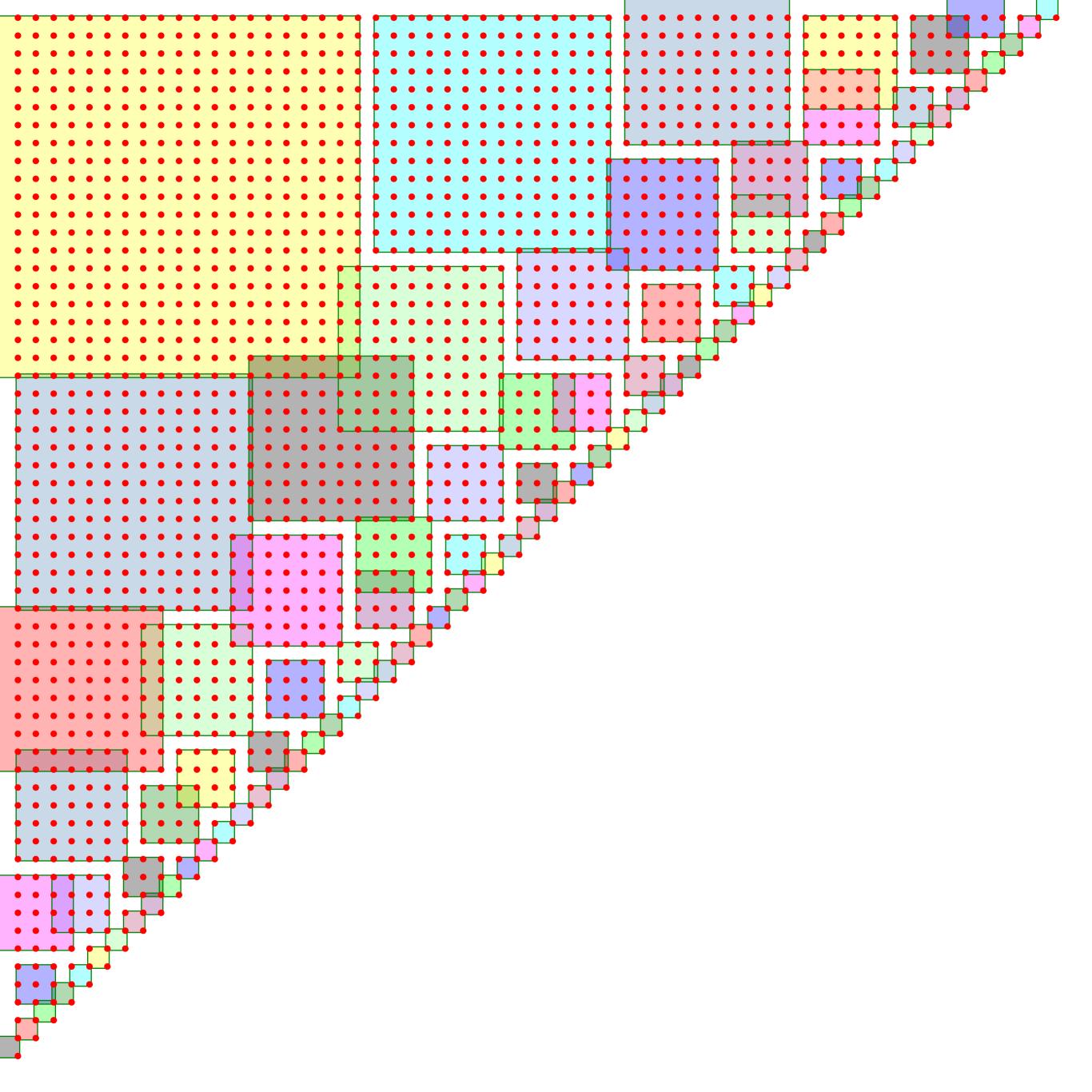
Greedy cover n = 60  $\epsilon = 1$  |Greedy| = 108 Solution computed by setting up the set system,

and using greedy set-cover to solve it.



IP cover
n = 60
ε = 1
|IP| = 98

Set up the natural IP for set-cover, and solve it exactly using Gurobi



```
Summary
n = 60 (N=1770)

ε = 1
|IP| = 98
|Greedy| = 108
|WSPD| = 122
|3-aprx| = 139
|3-aprx-c| = 113
```