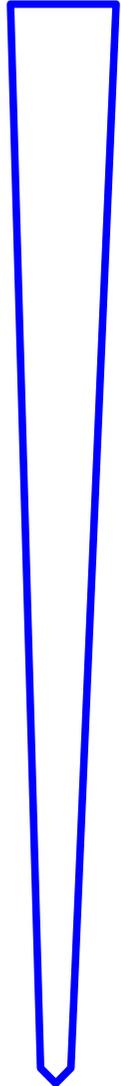


level of refinement

3.12.2024

Blade geometry

1 mm



50 mm

0.1 mm, 90 °

Geometry Input

Stl file

44

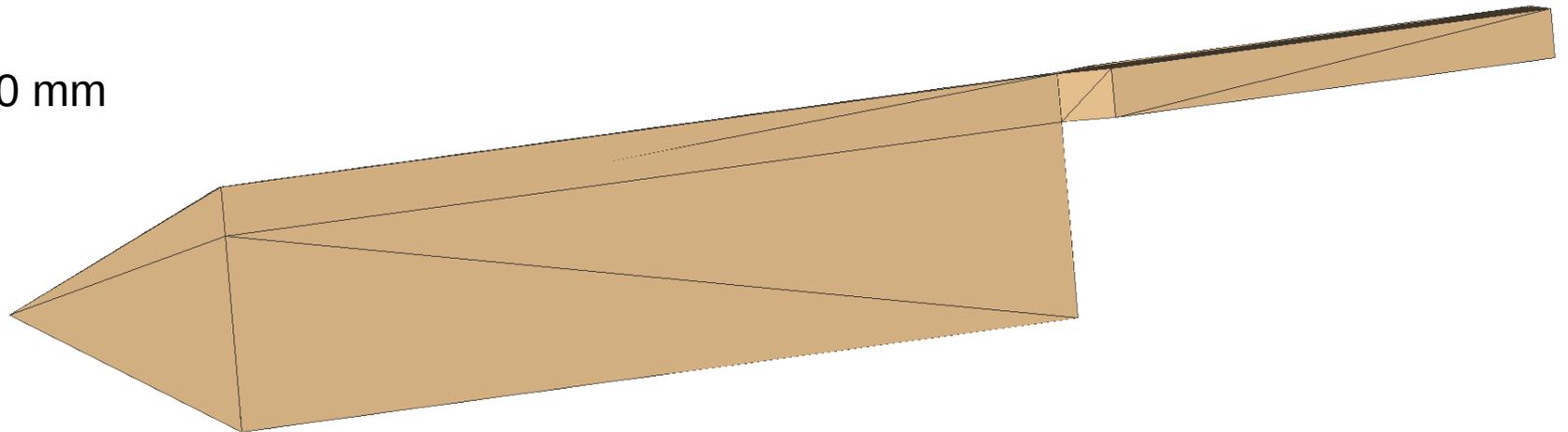
triangles

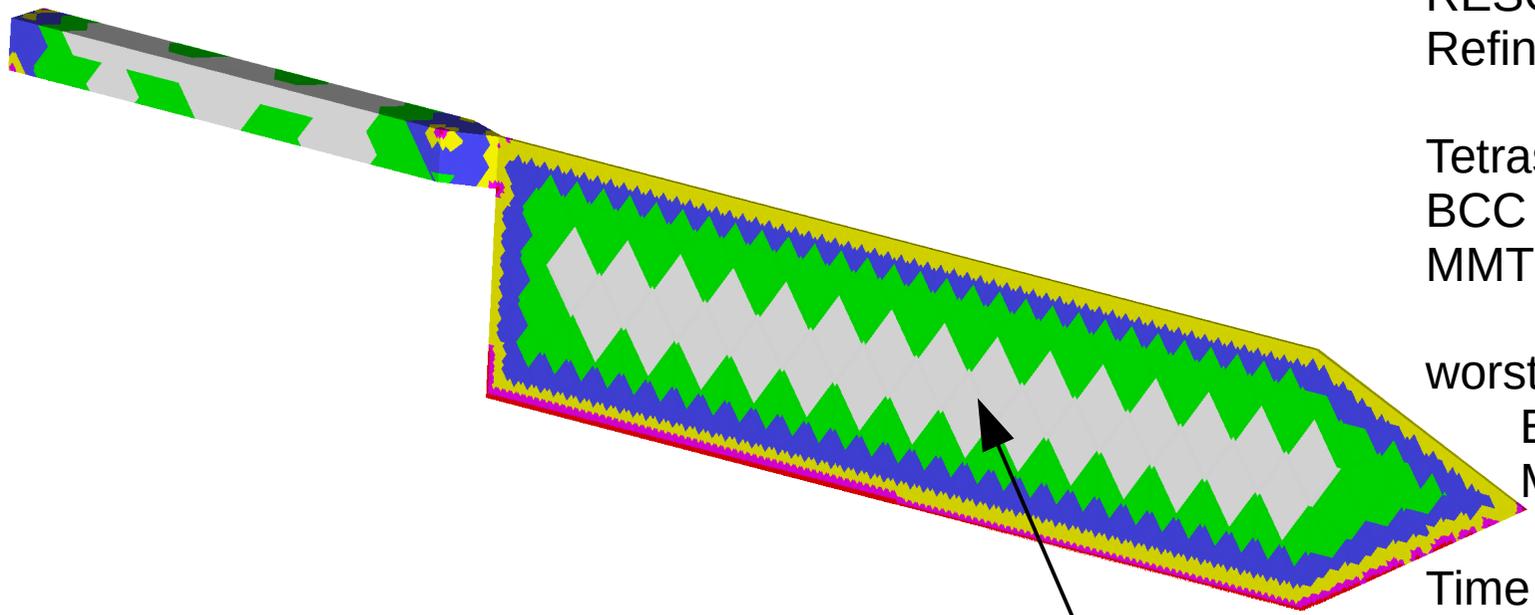
10 x 10 x 100

handle - mm

50 x 240

blade - mm





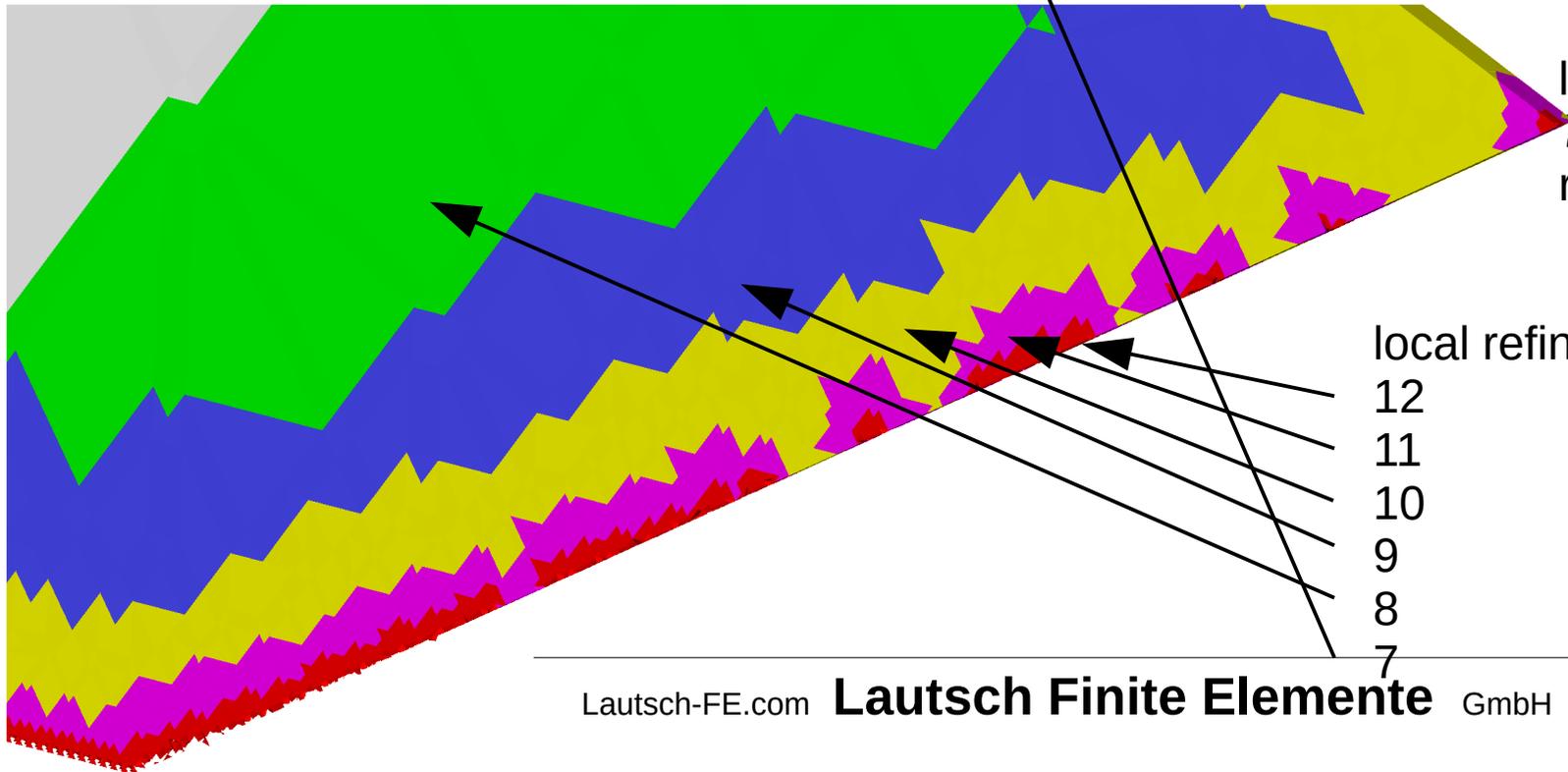
RESOLUTION 1 mm  
Refinement 11 + 1

Tetras knife + fluid  
BCC 132 516  
MMT 346 849

worst tetra  
BCC 0.155  
MMT 2.1 e-6

Time (laptop, 5 years old) 10 seconds

large edge input 786.1  
 $786/2^{**11} = 0.38 =$   
resolution (roughly)

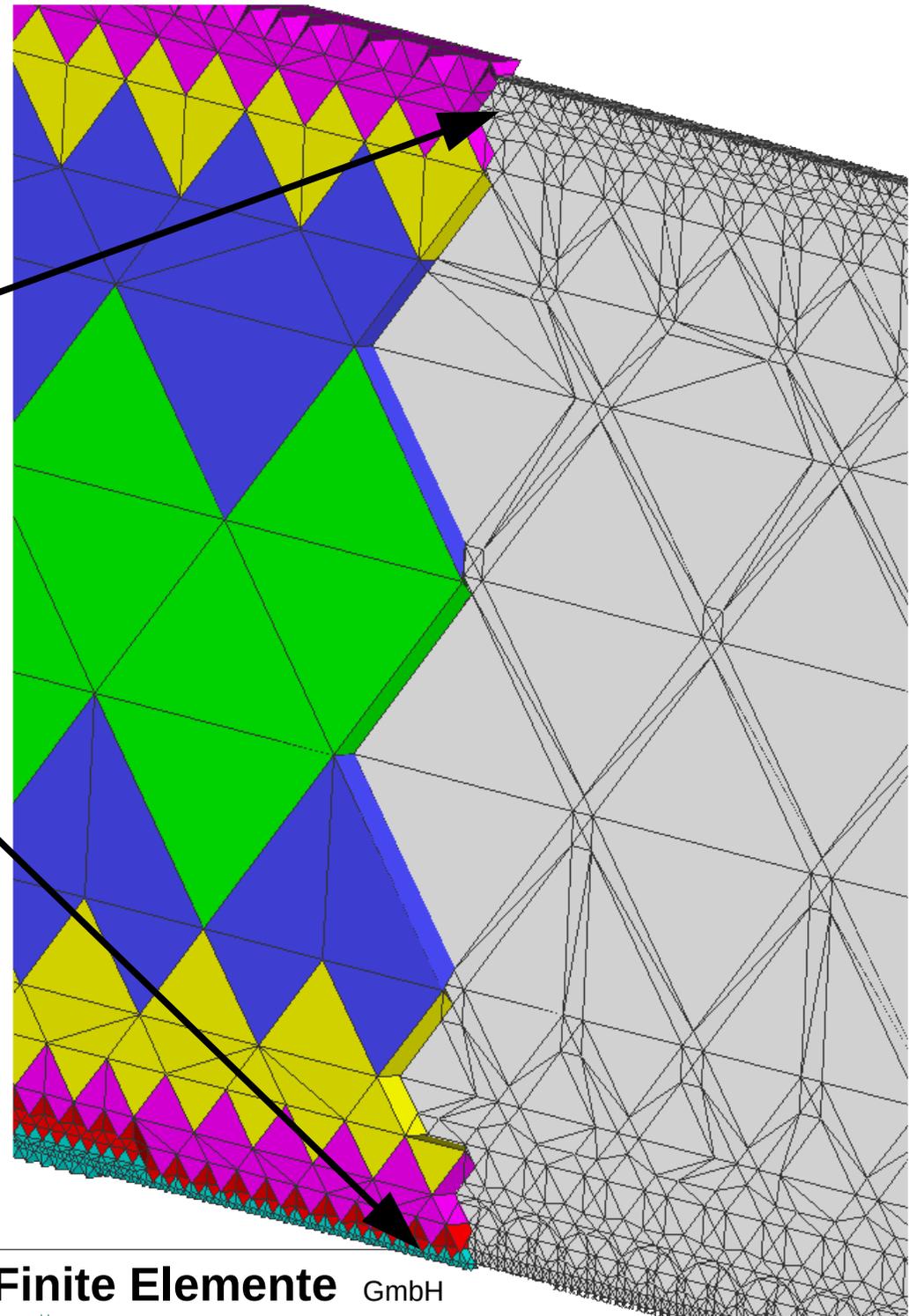
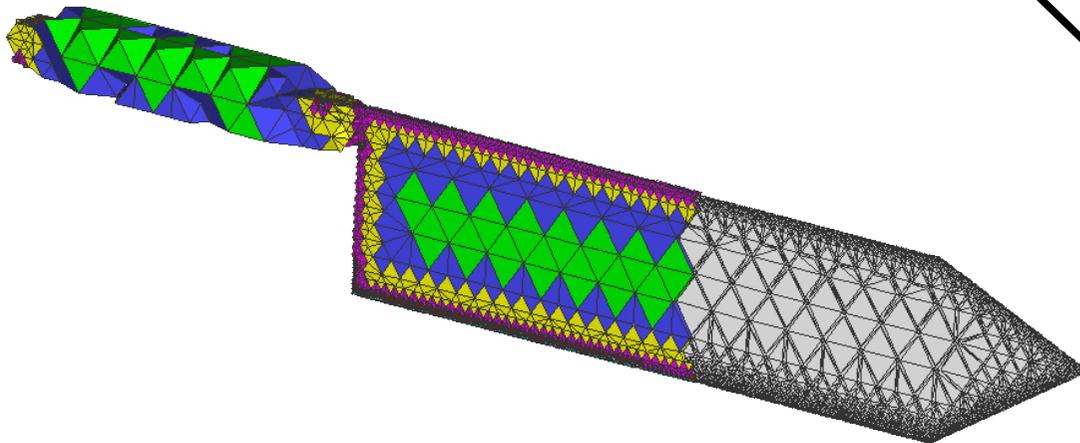


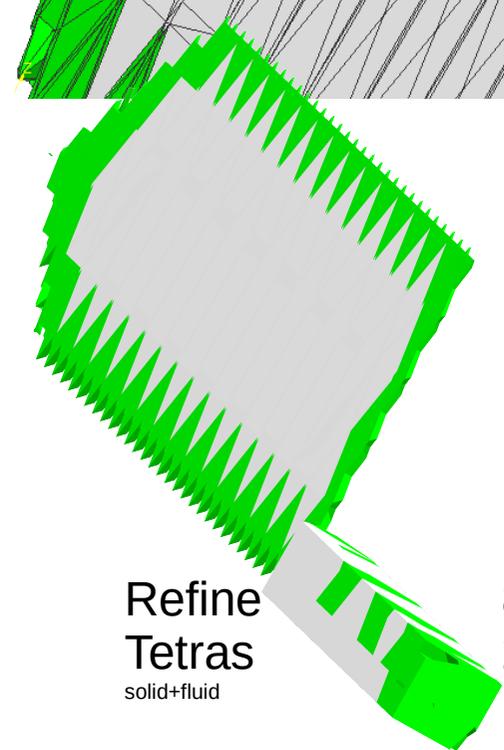
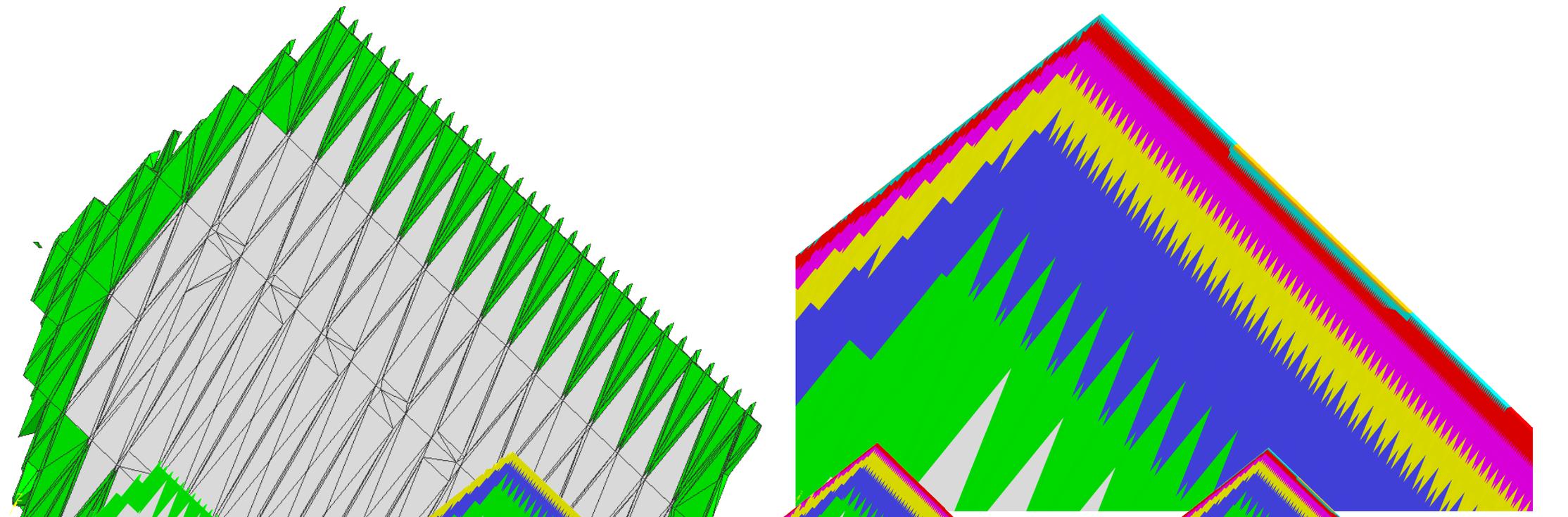
local refinement level  
12  
11  
10  
9  
8  
7

Knife and it's BCC approximation

Terminates locally at 9 BCC refinements because geometry approximation is good.

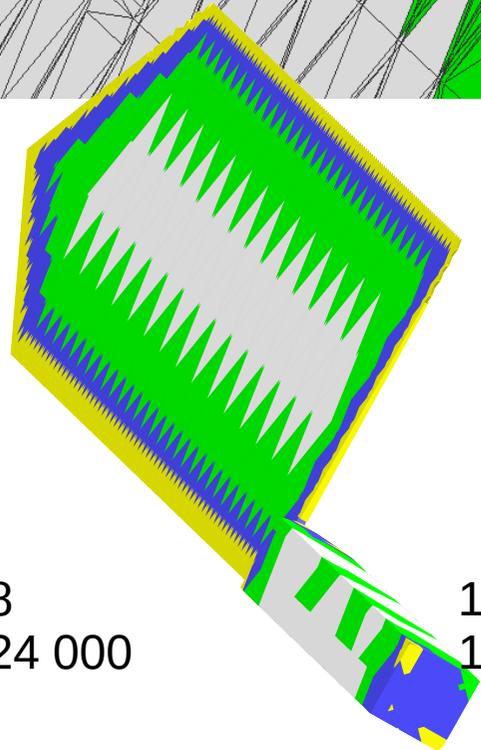
Terminates locally at 11 BCC refinements because 11 is the maximum number of refinements as required by the user.



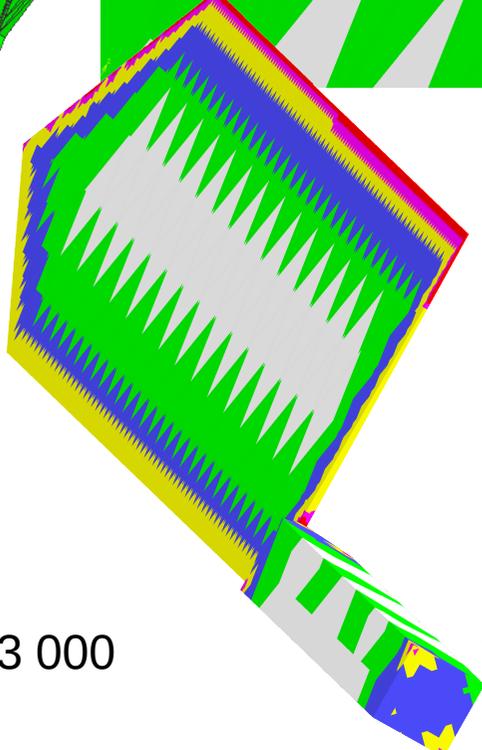


Refine  
Tetras  
solid+fluid

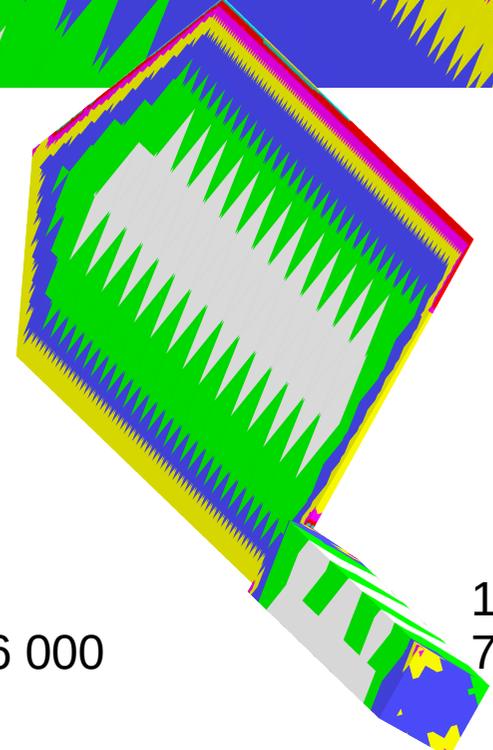
8  
24 000



10  
133 000



12  
346 000



14  
719 000

5