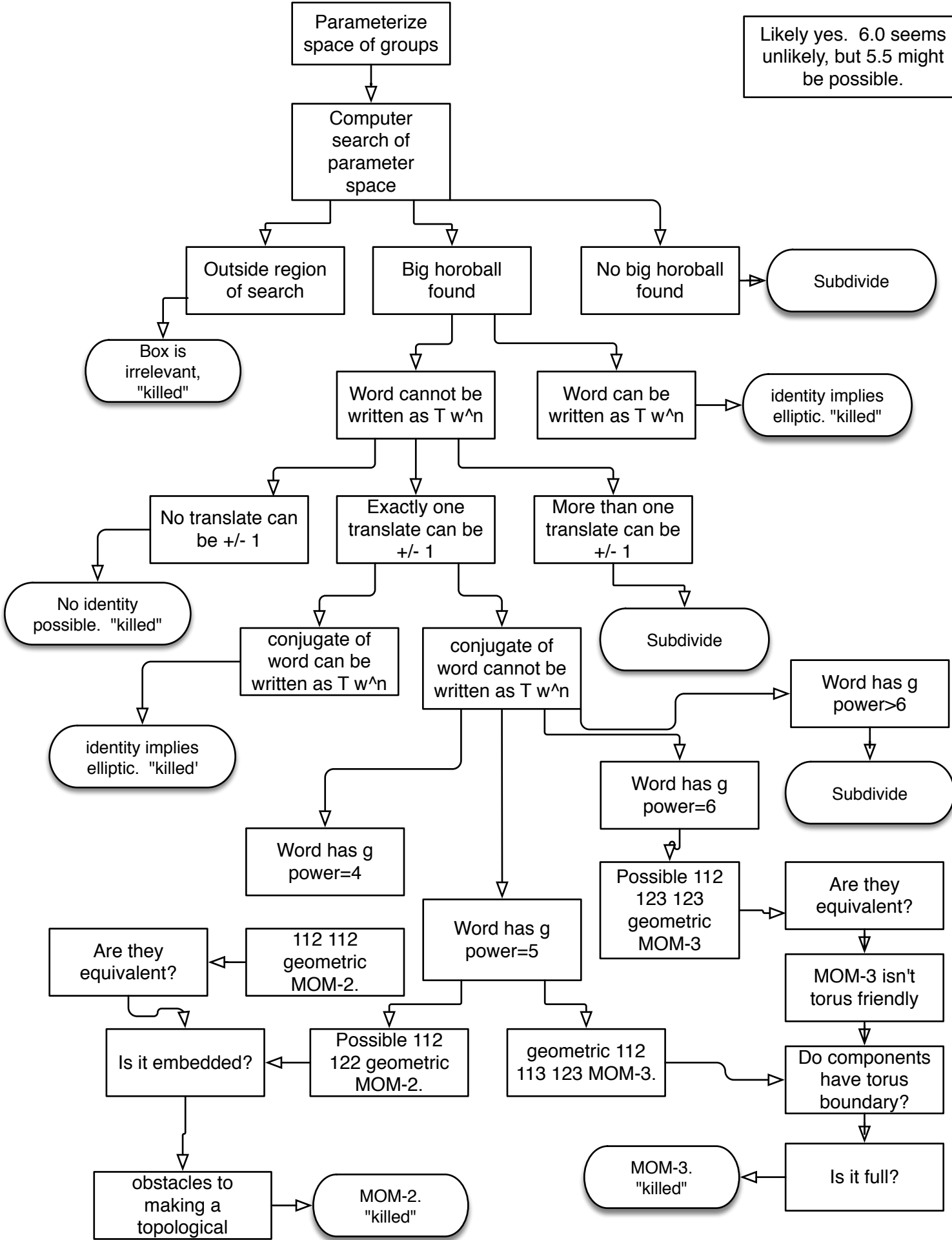


Goal: show that all hyperbolic 3-manifolds with maximal cusp area < 5.0 can be obtained by dehn filling of one of the MOM-2 or MOM-3 manifolds

Can the area be improved?

Likely yes. 6.0 seems unlikely, but 5.5 might be possible.



Found an error not considered for some of the logic

No check for embeddedness or equivalence in MOM-2 cases

Insufficient review for rigour of program

No method for handling neighborhoods of m295, m367, s443

Search has not resolved several other subspaces into individual manifolds

No method for handling individual manifolds

All boxes are either conventionally eliminated or have geometrical MOM-2 or MOM-3

embedded?

torus boundaries?

Full?

m129 area=4  
112 112

m295 area=4.608  
112 113 123

s443 area=4.886  
MGmnGGmgMNg  
g

m367 area=4.9897  
MGmnGGmgMNg  
g

m125 area=5  
112 122

v1060 area=5.029  
MGmnGGmgMNg  
g

m292 area=5.0331  
mnGGmGmGmG  
G