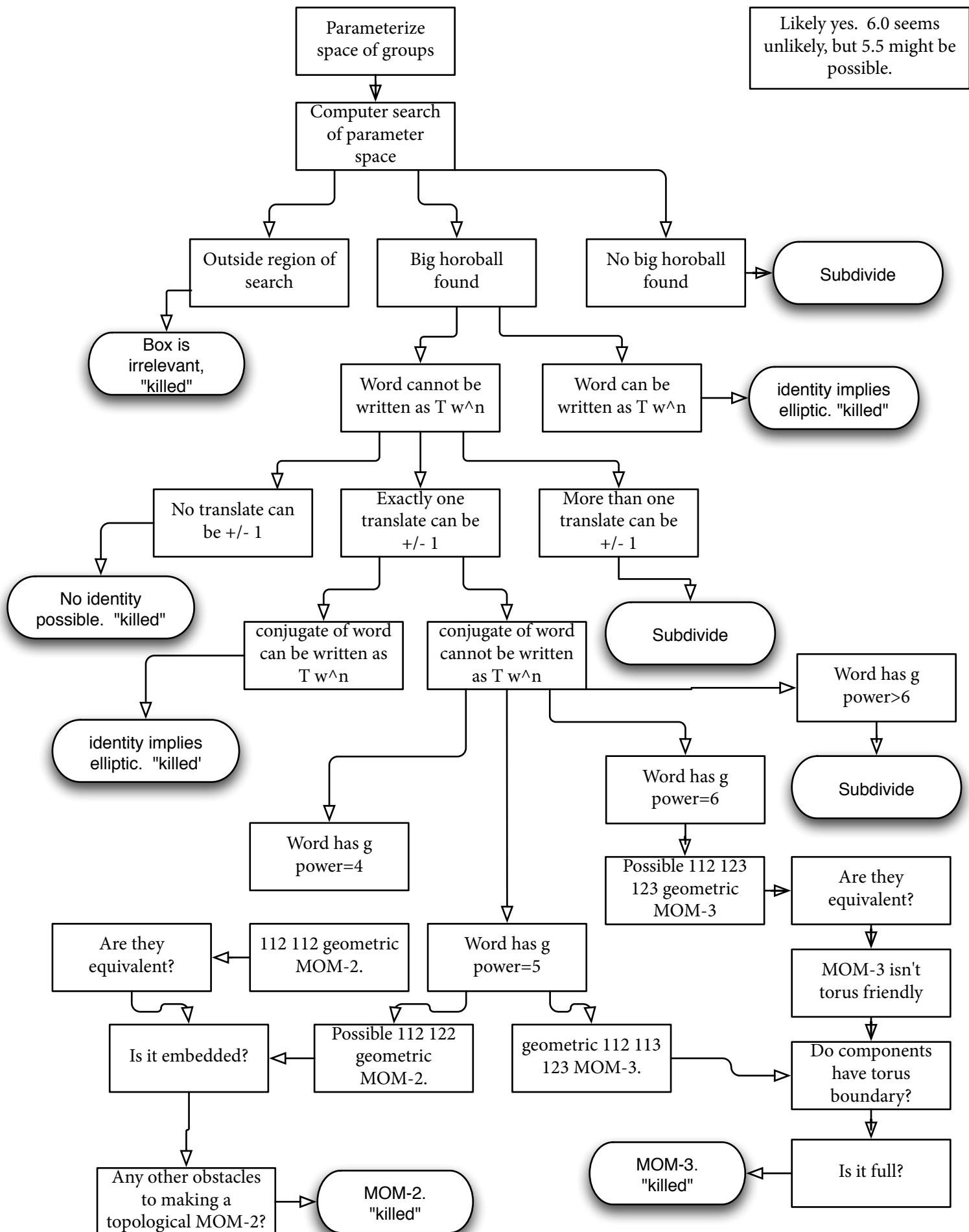


Goal: show that all hyperbolic 3-manifolds
with maximal cusp area < 5.0
can be obtained by dehn filling
of one of the MOM-2 or MOM-3 manifolds

Can the area be
improved?

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



Roundoff 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
MGmnGGmgMNgg

m367 area=4.9897
MGmnGGmgMNgg

m125 area=5
112 122

v1060 area=5.029
MGmnGGmgMNgg

m292 area=5.0331
mnGGmGmGmGG