Algorithm 1: Cluster Generation Algorithm from MST

Input: The minimum spanning tree MST
Output: The trimmed minimum spanning tree MST

1: **while** true **do**
2:    $Edge = MST.find\_best\_edge()$
3:    $MST.remove\_edge(Edge)$
4:    **if** $|\sigma(MST^n) - \sigma(MST^{n-1})| < \epsilon(|\sigma(MST^0) - \sigma(MST^n)| + 1)$ **then**
5:       $break$
6:    **end if**
7: **end while**
8: $return\ MST$