

# 外凸缸盖处理方法

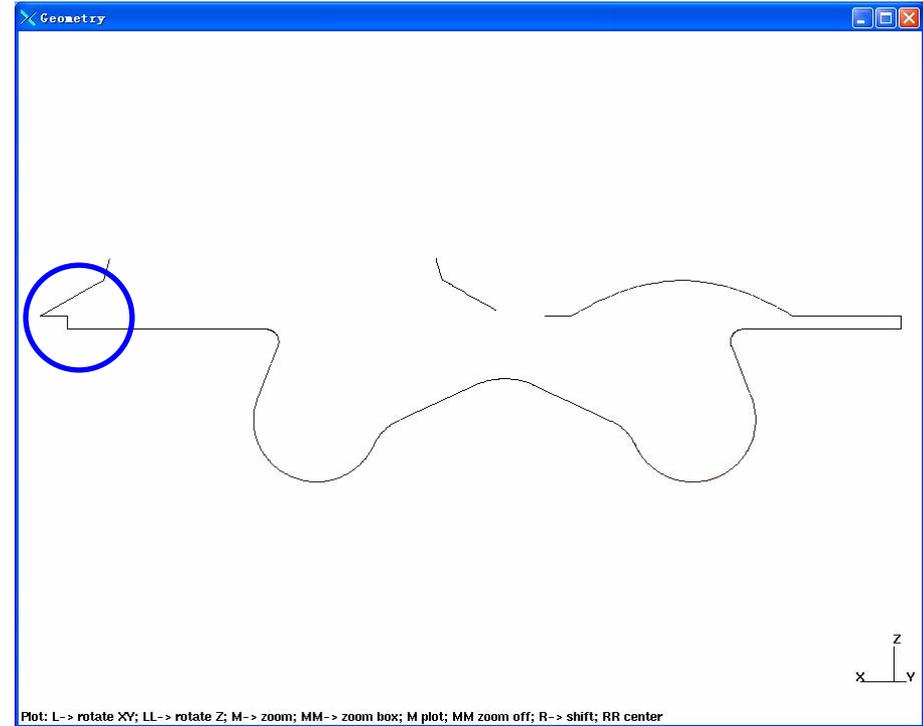
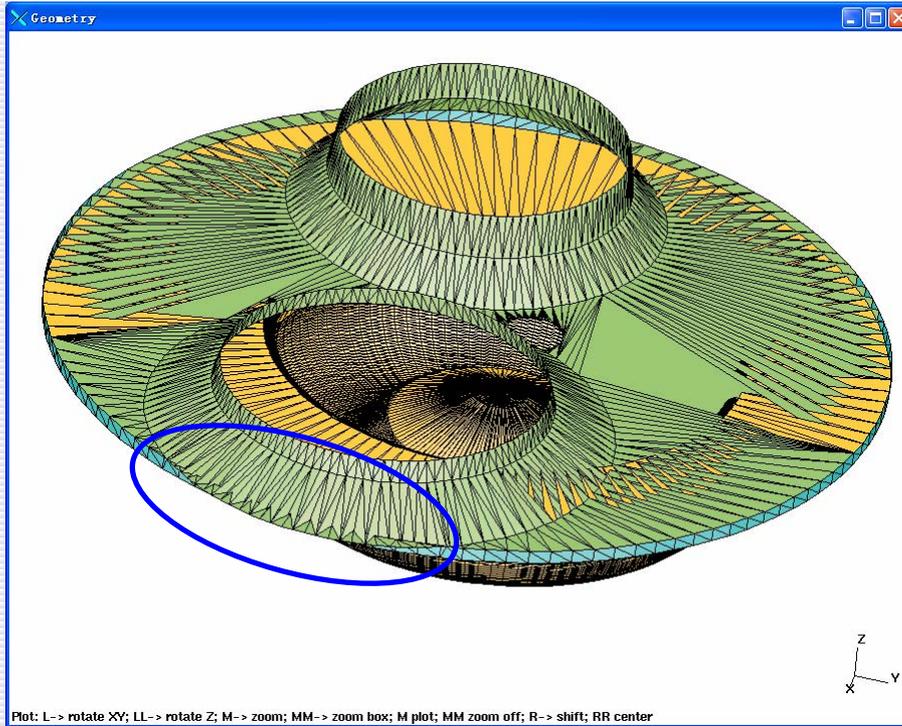
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叶良春

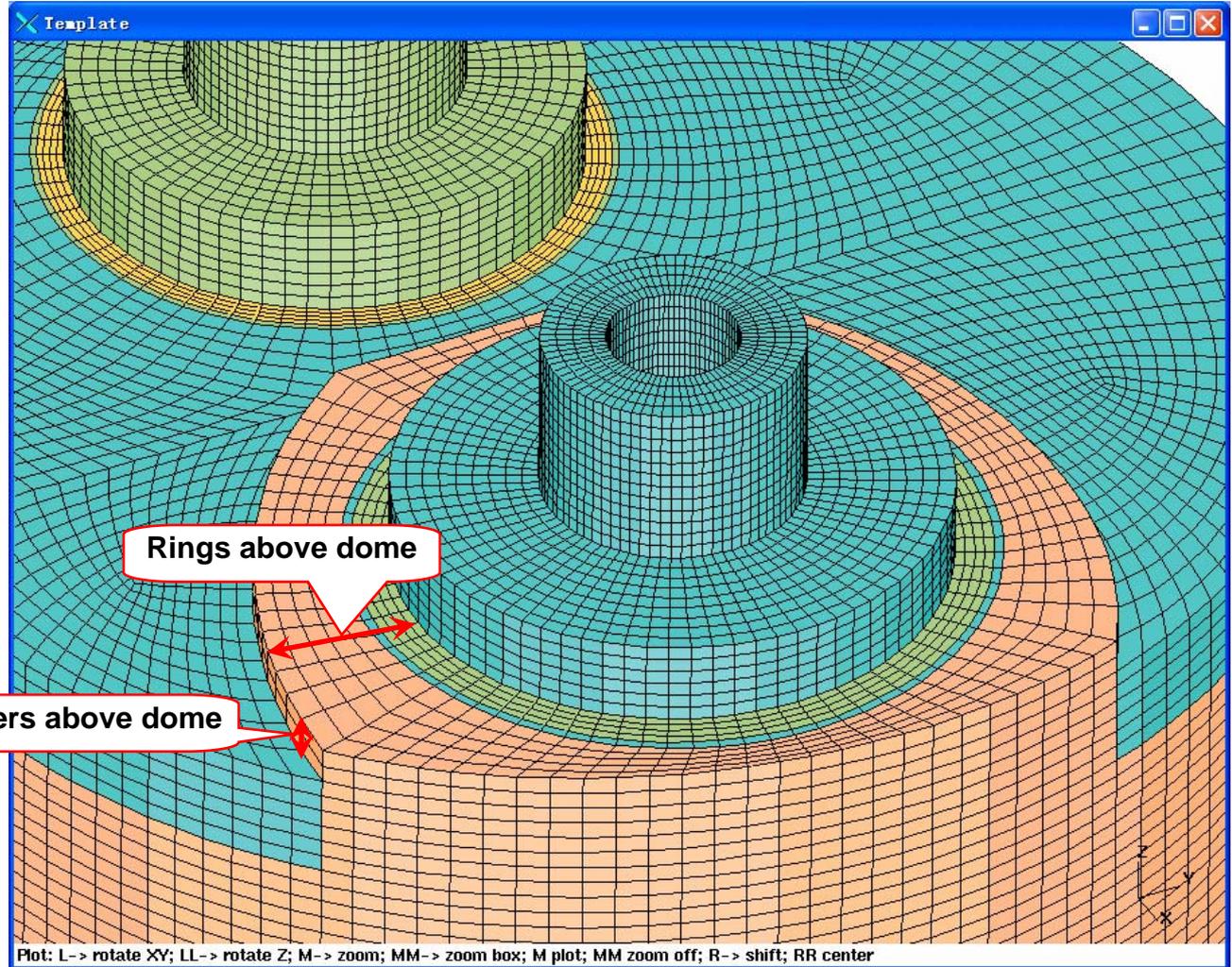
西迪阿特公司 技术部



问题：如下图所示的超出缸径的缸盖凸出部分在**es-ice**中该如何处理？

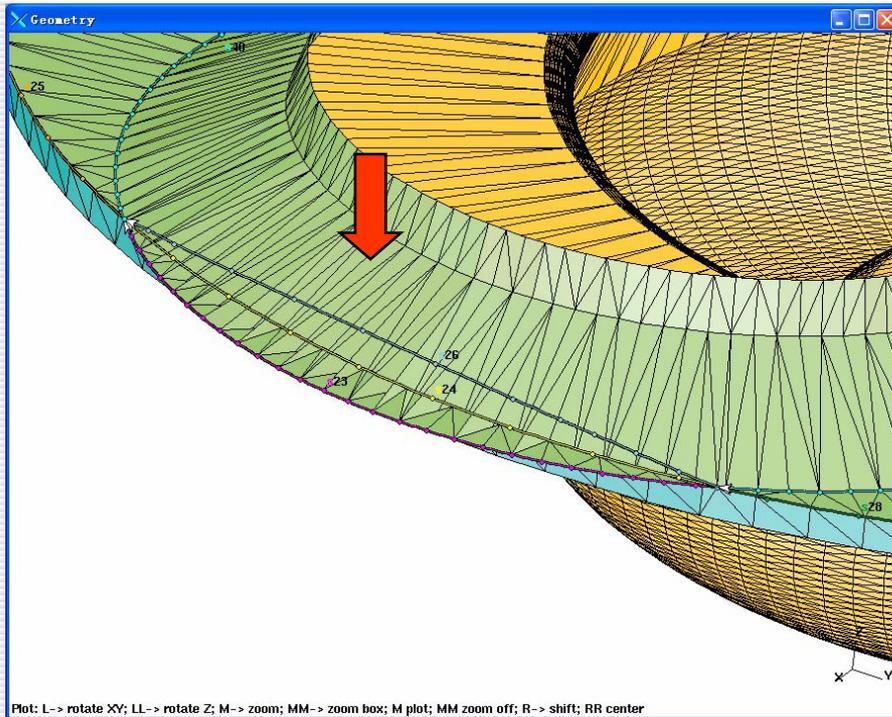


# Step1 创建带台阶的template

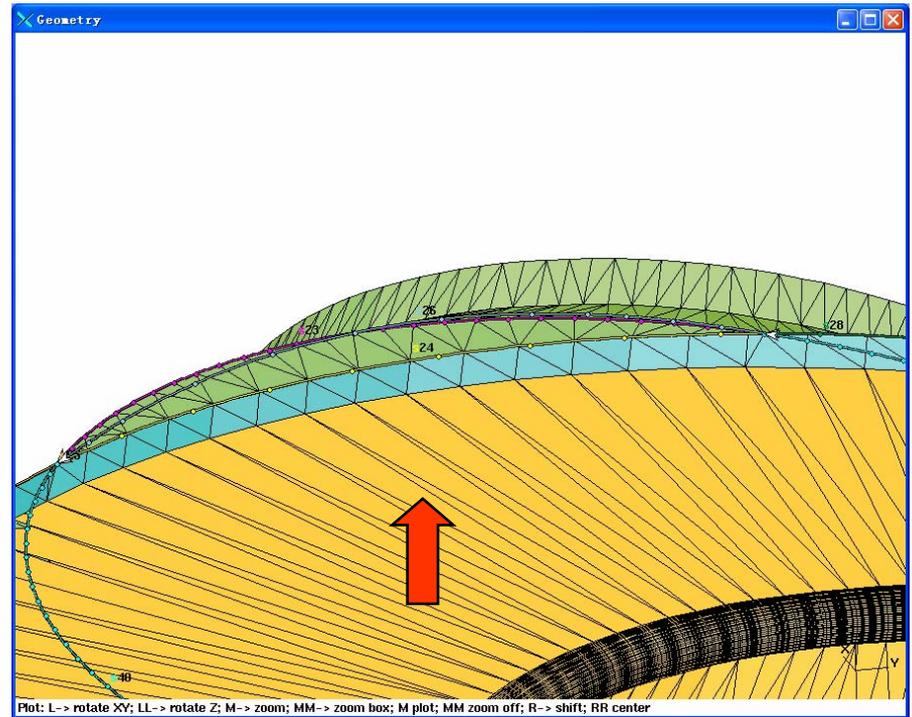


设置Valve参数,  
生成template中  
的台阶。

## Step2 在Geometry上创建如下图所示spline

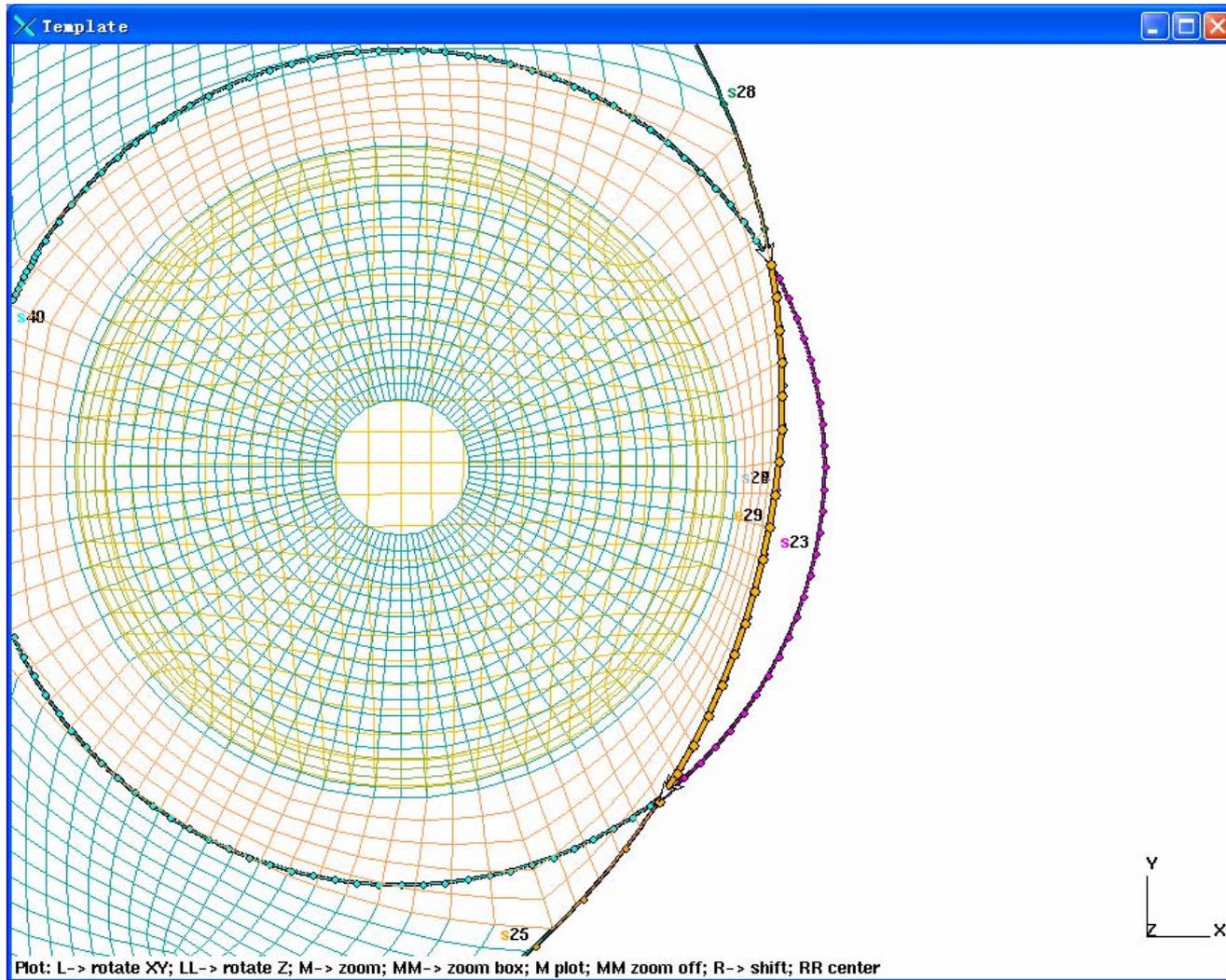


**Top view**

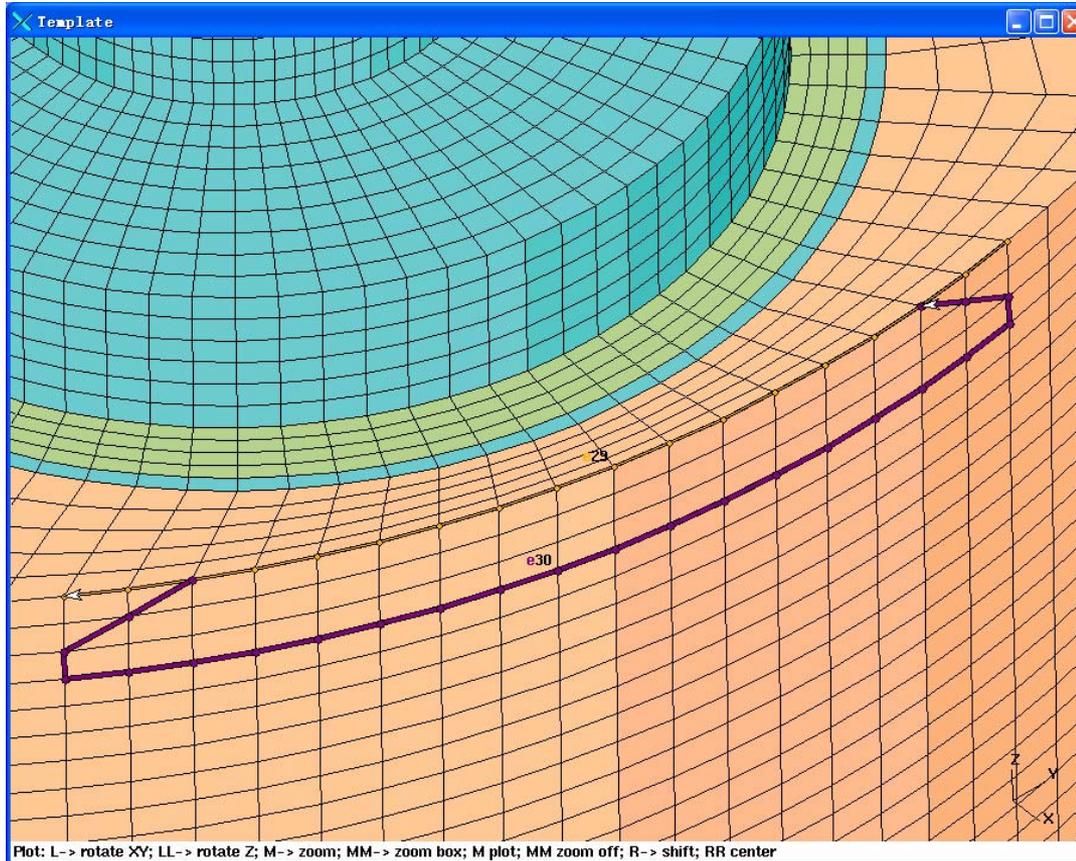


**Bottom view**

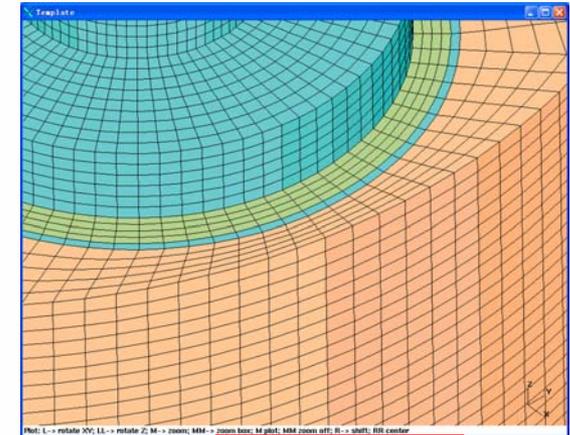
Step3 将Template与Geometry进行dplc, 并根据 spline位置创建如下图所示edge



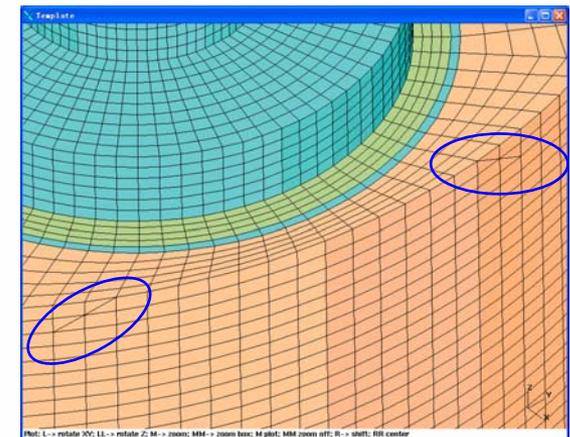
## Step4 创建如下图所示edge30, 并执行cuth 30



**edge30**

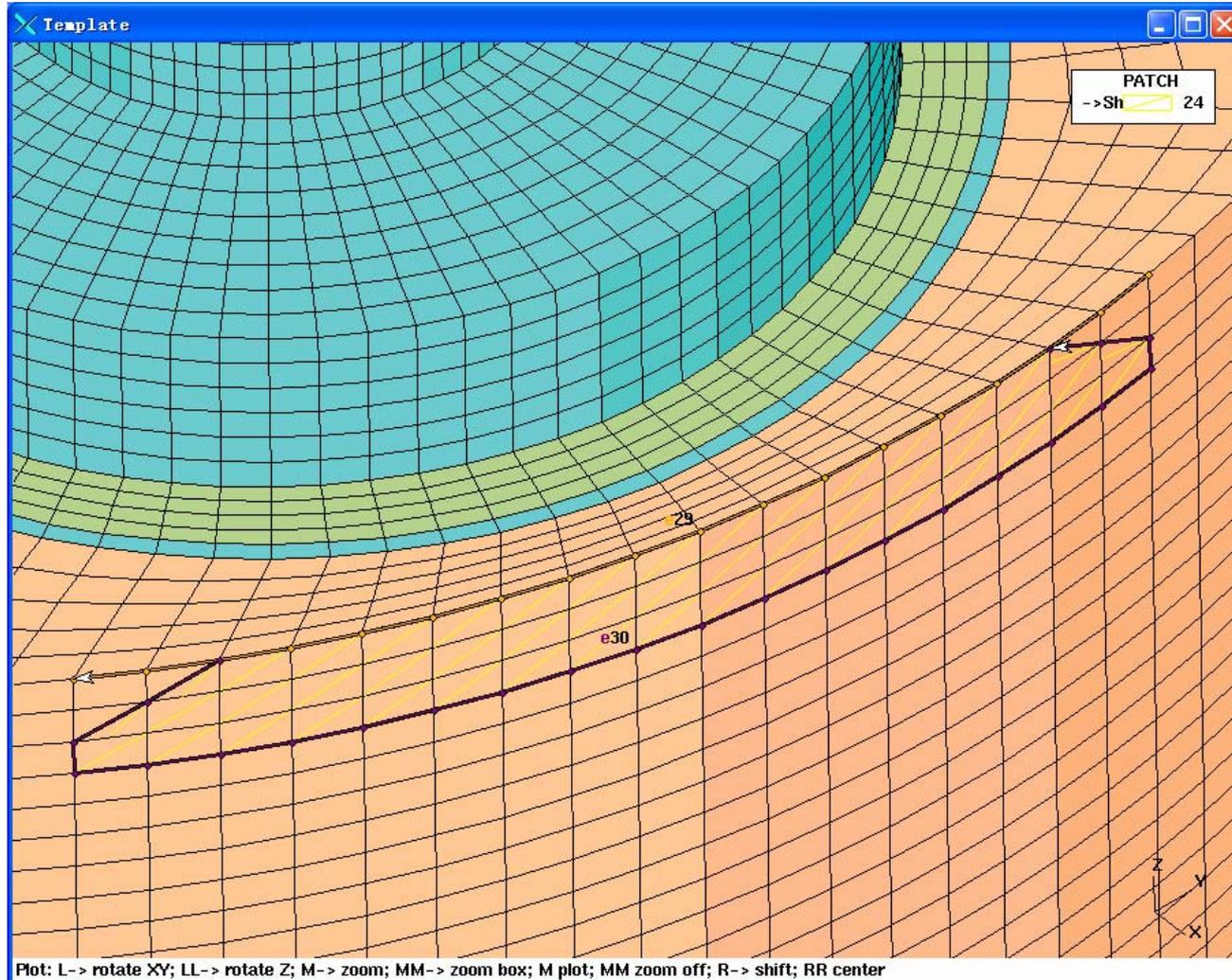


**cut前**

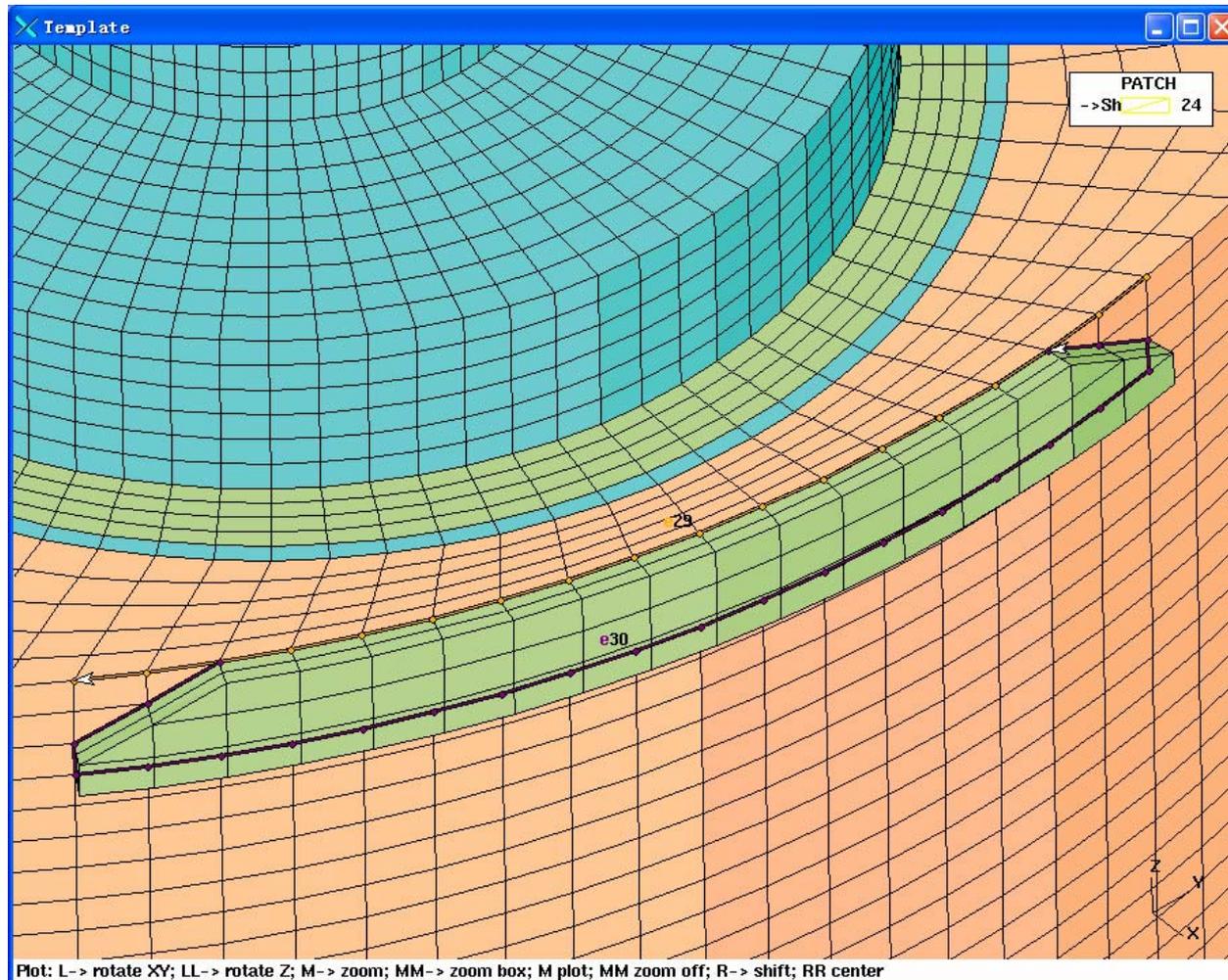


**cut后**

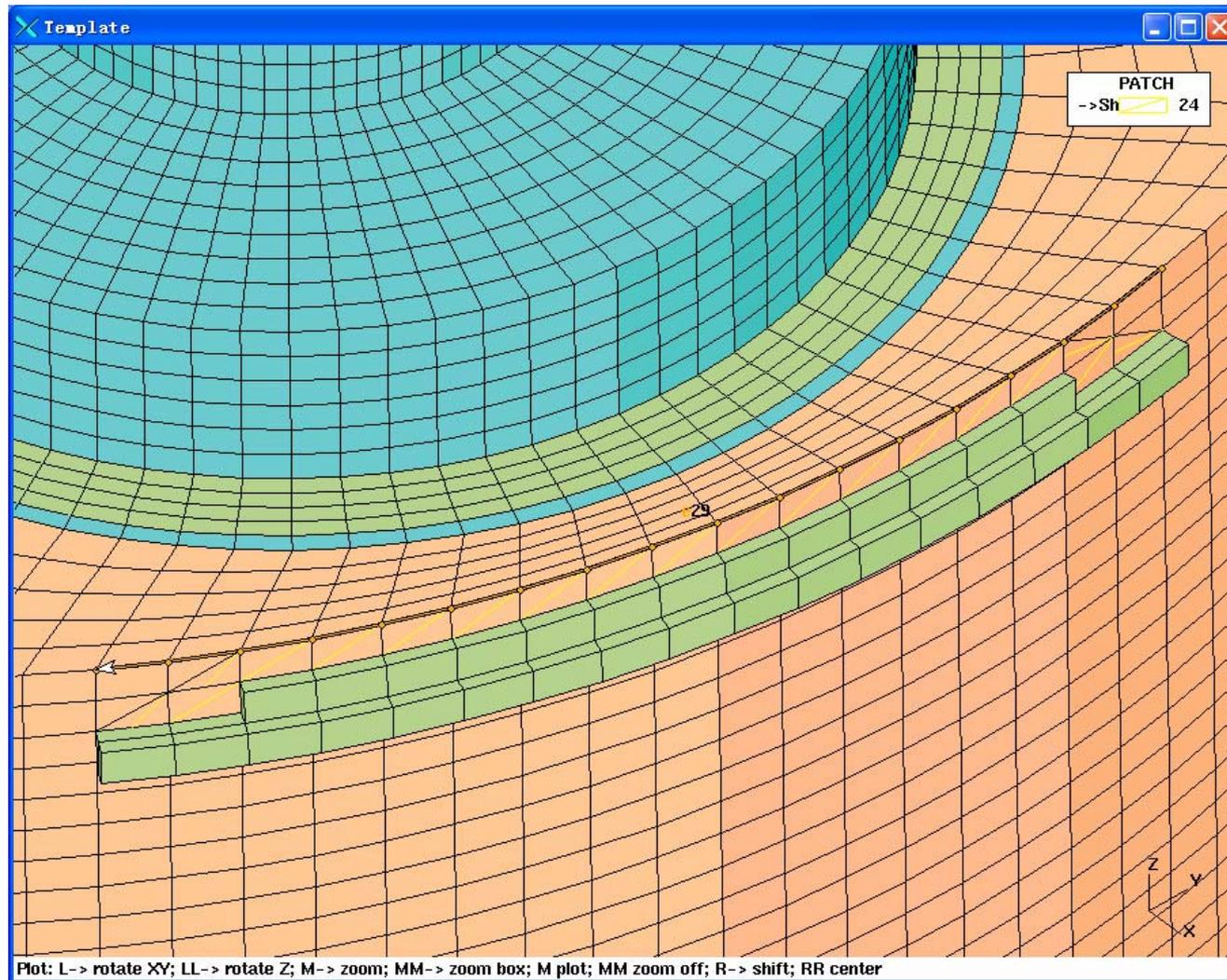
## Step5 创建如下图所示patch24



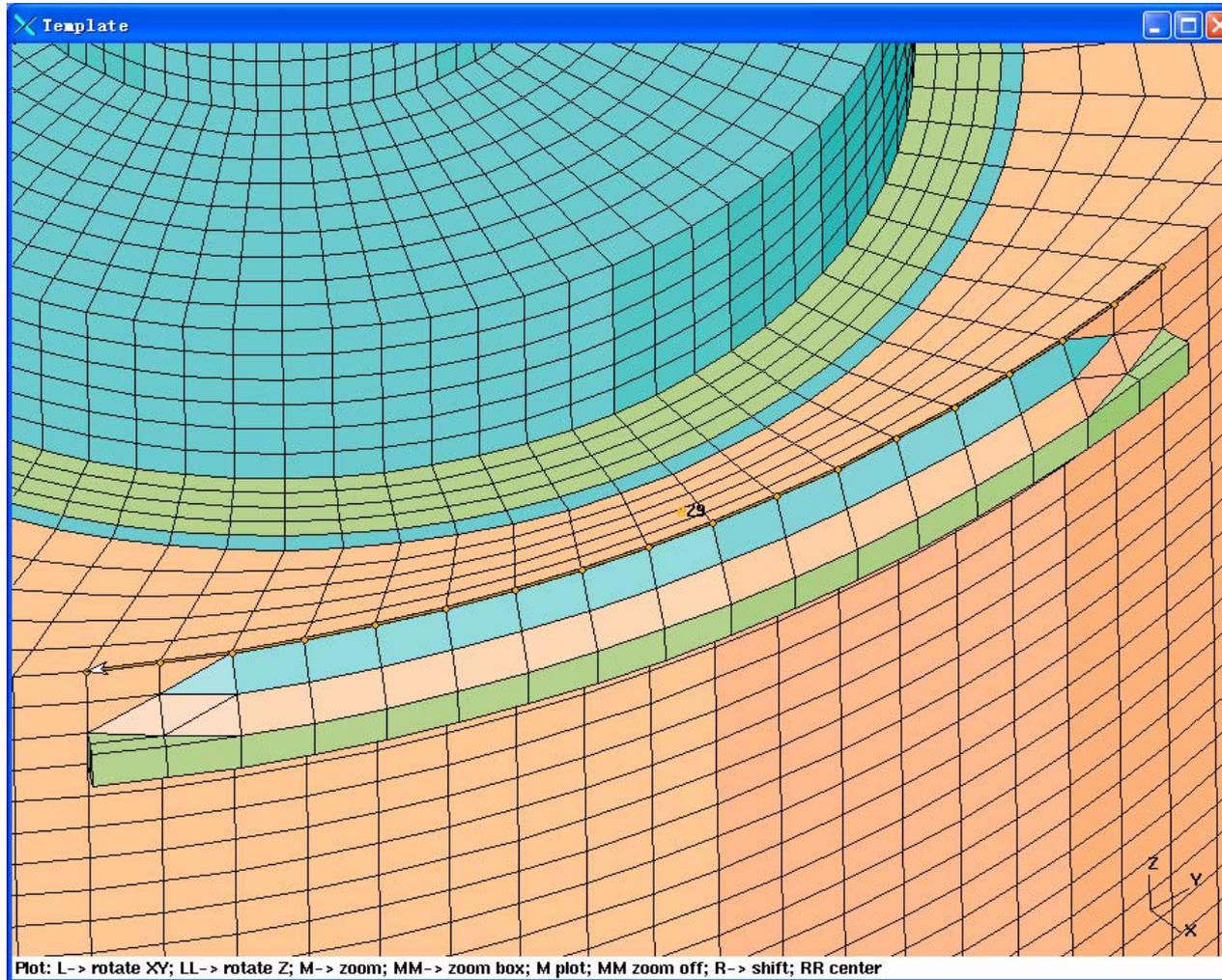
## Step6 采用pext命令基于patch24沿径向拉升出两层网格



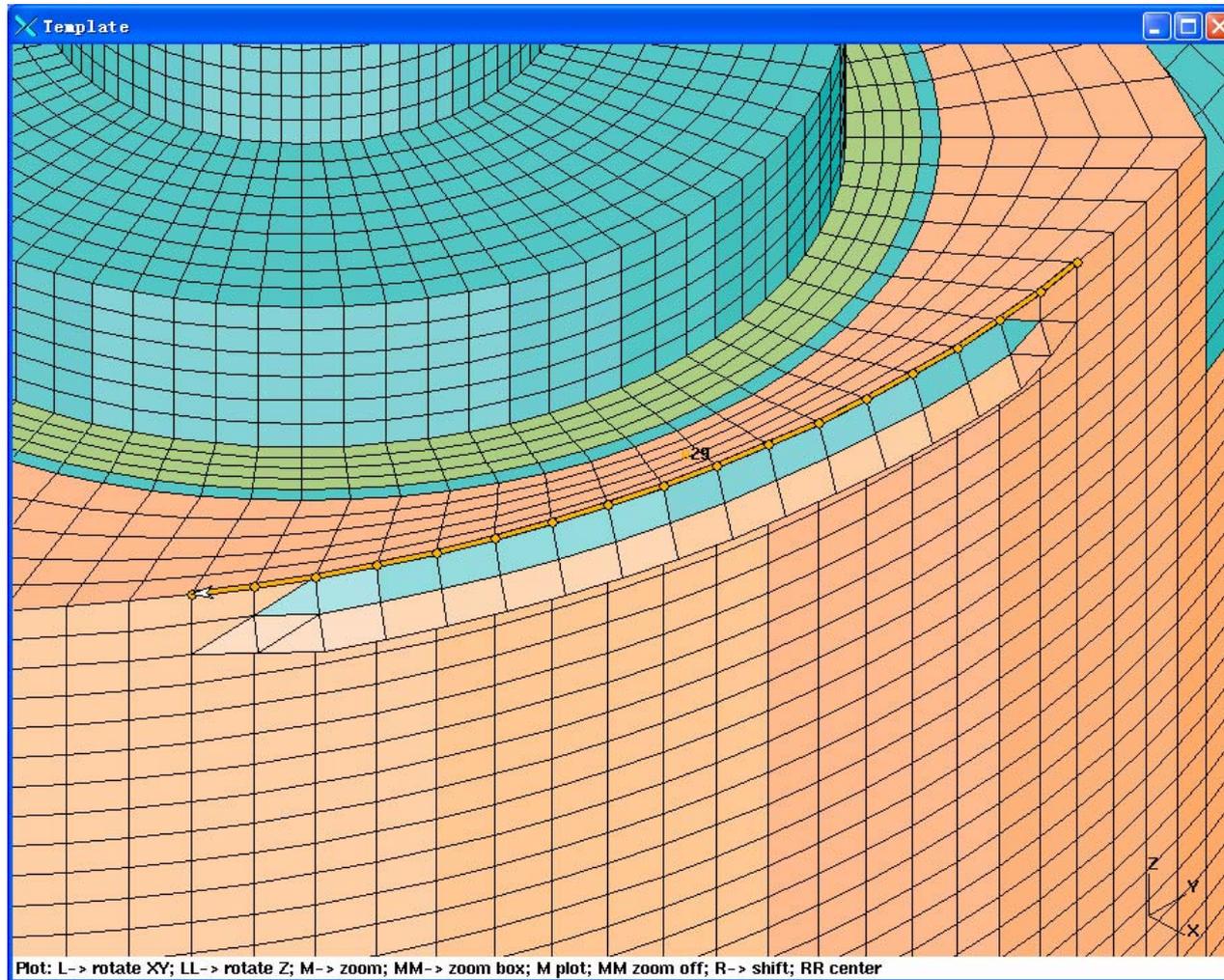
## Step7 删除部分网格



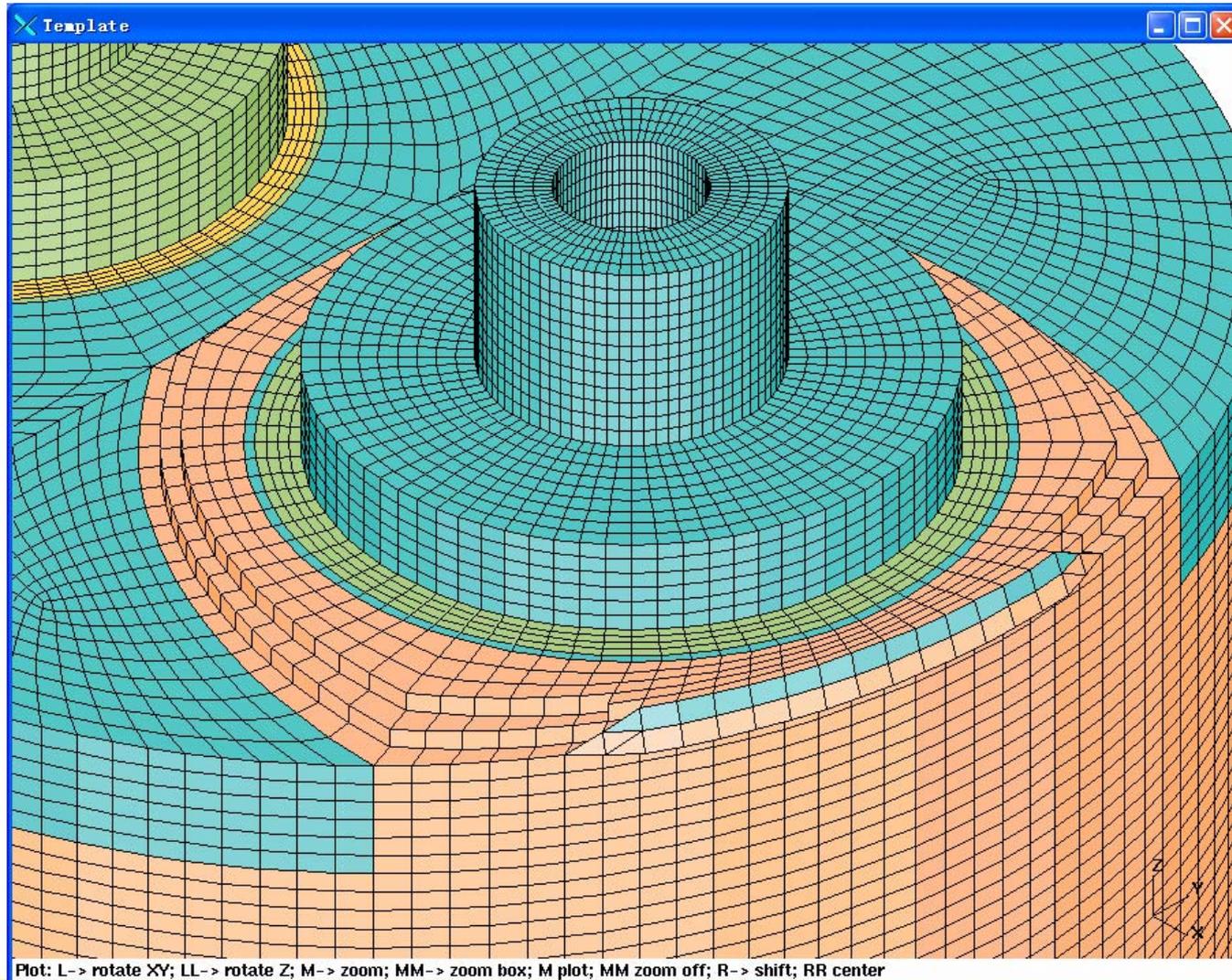
## Step8 采用plaster方法创建如下图所示网格



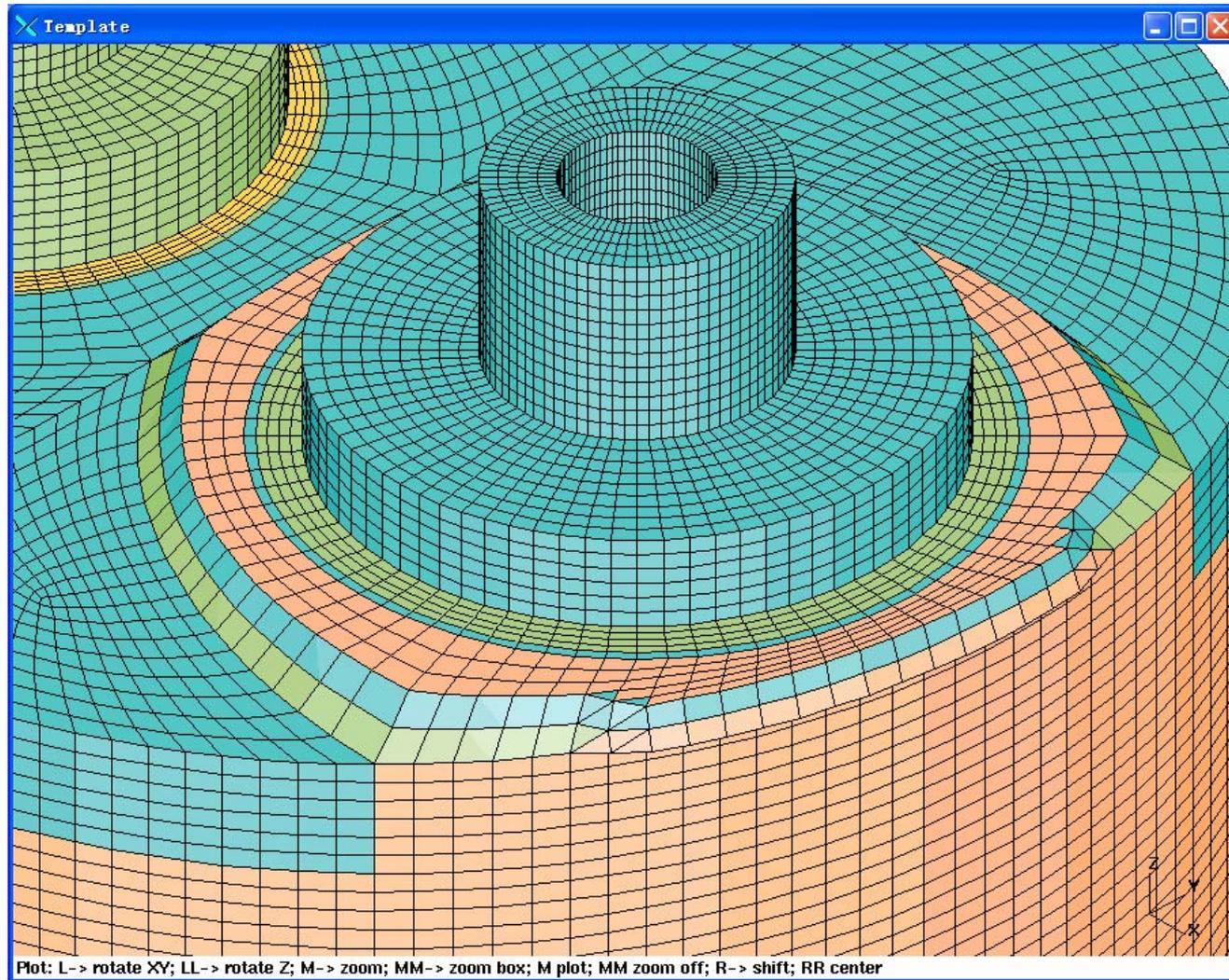
## Step9 删除底层多余网格



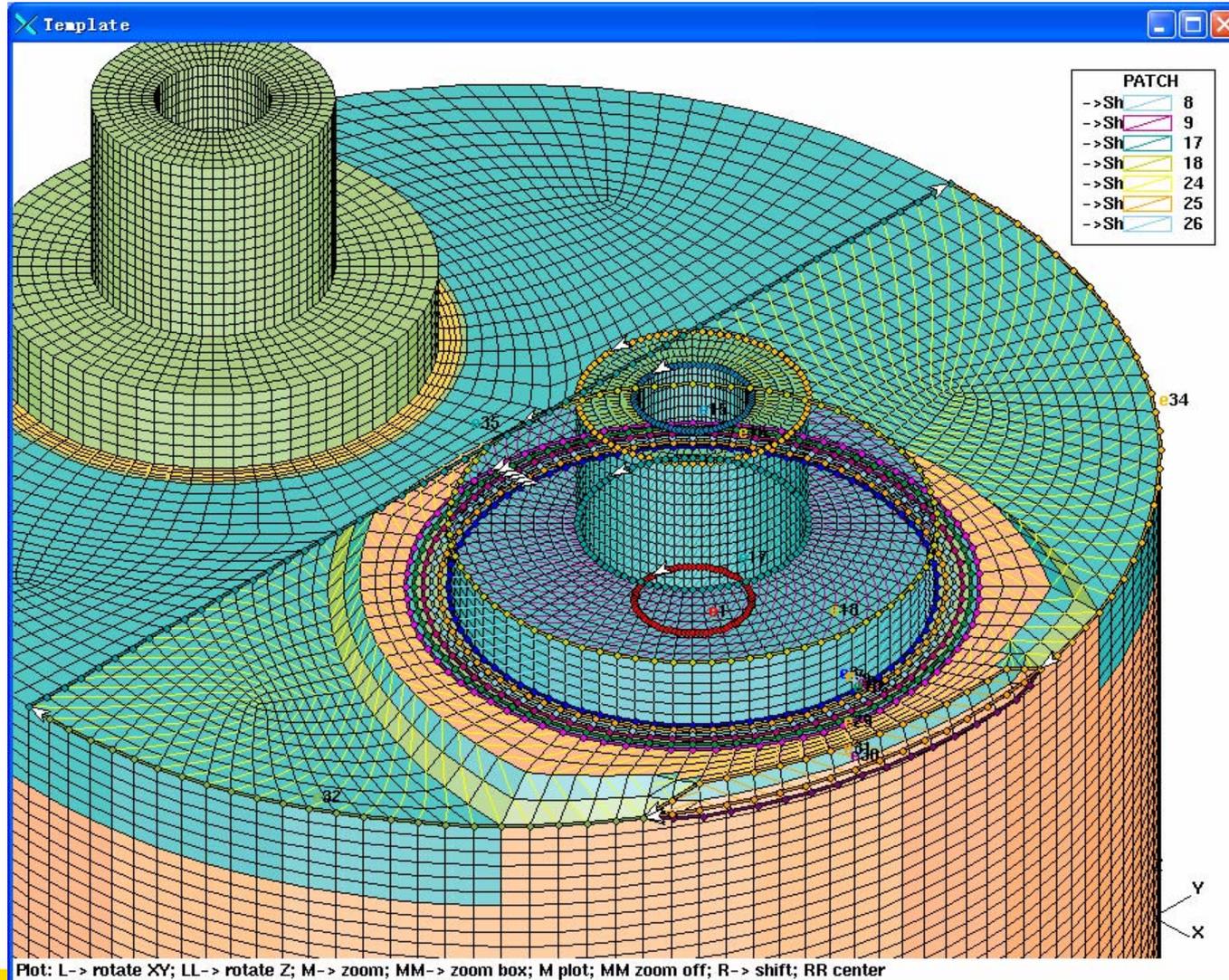
## Step10 按下图删除模板网格



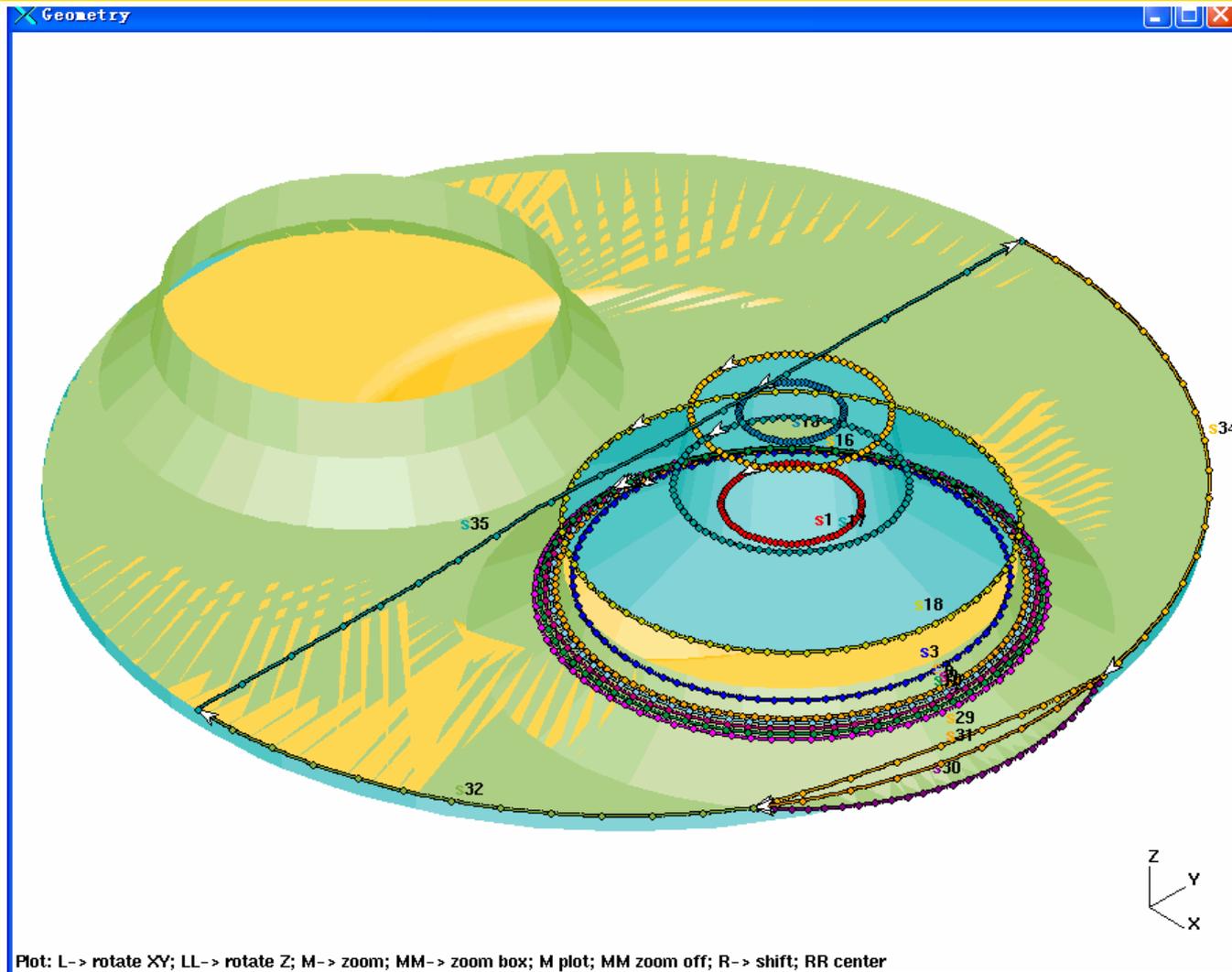
## Step11 采用plaster方式填平



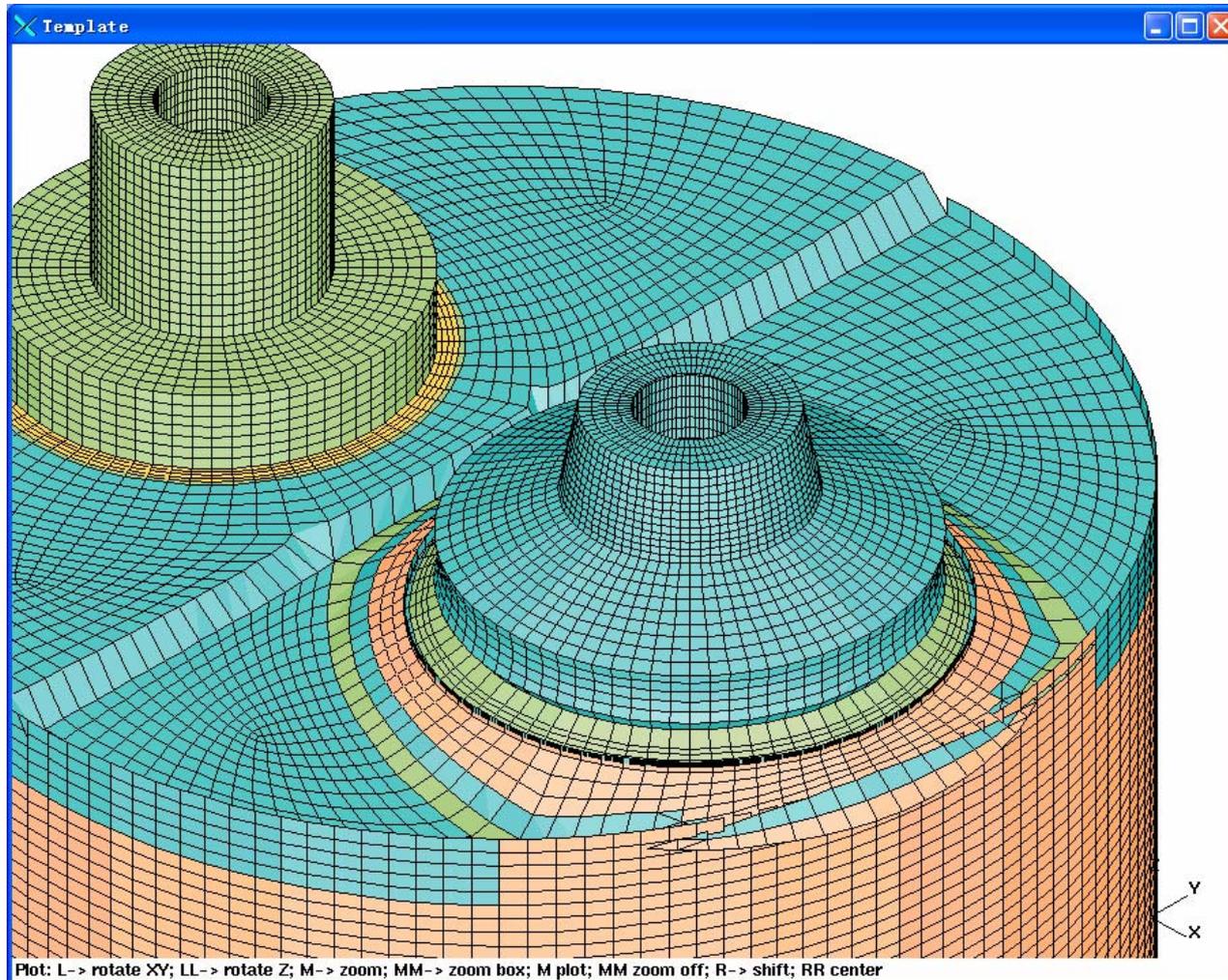
## Step12 创建如下所示edge和patch



## Step13 创建如下所示spline，并与edge关联

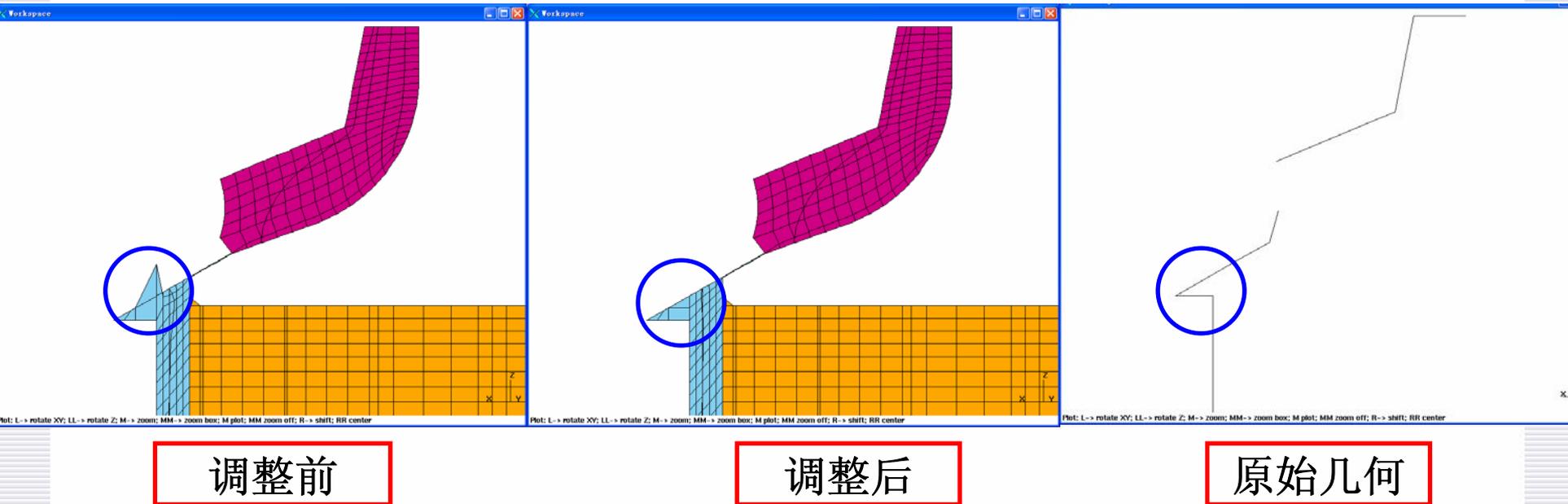


## Step14 map edge 和 patch



## Step15 smooth增添网格内部节点

- 通过pext拉伸出来的那部分网格，在计算过程中内部不会自动光顺，因此需要在建模时就调整其网格质量，保证没有负体积及较好的正交性。
- 调整时可以使用es-ice面板中的各种工具，如smooth工具。





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