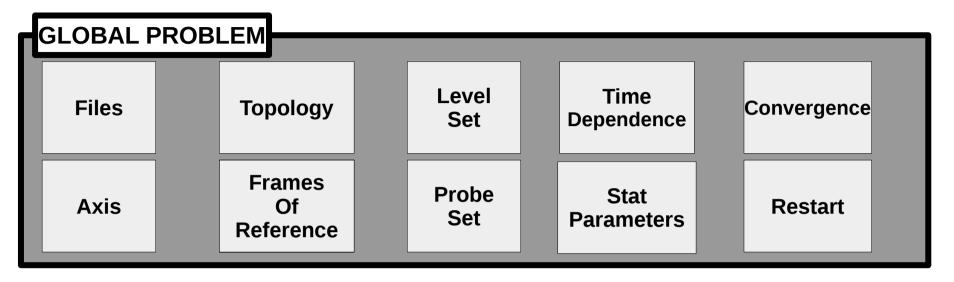
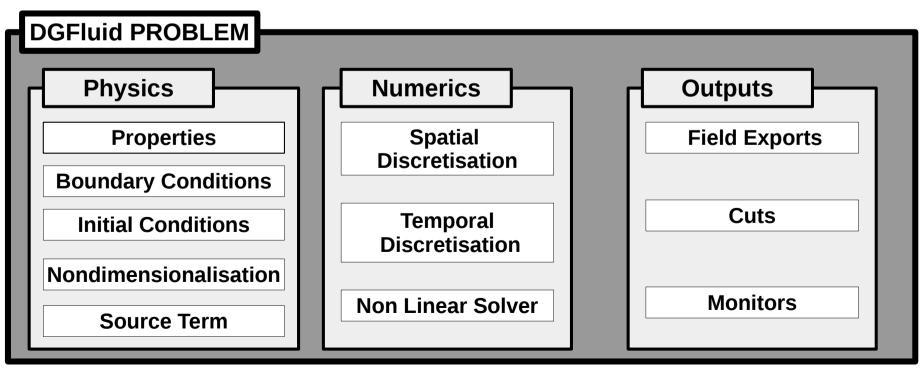
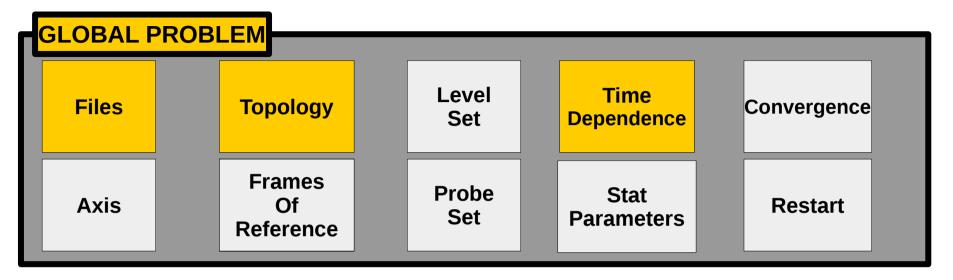
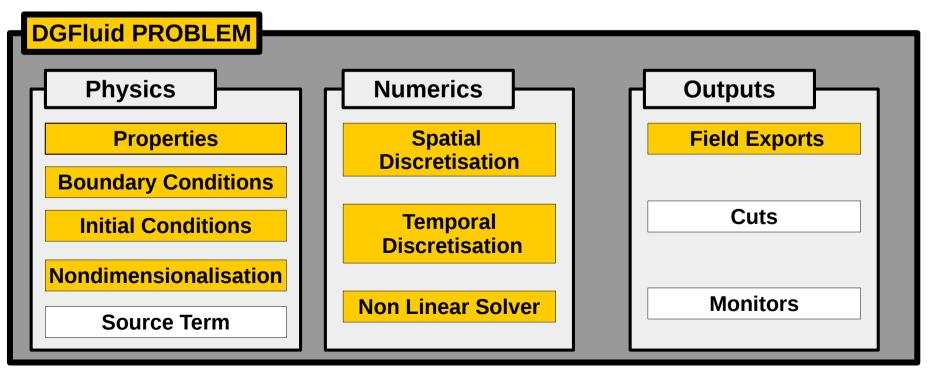
#### STRUCTURE OF THE INPUT FILE

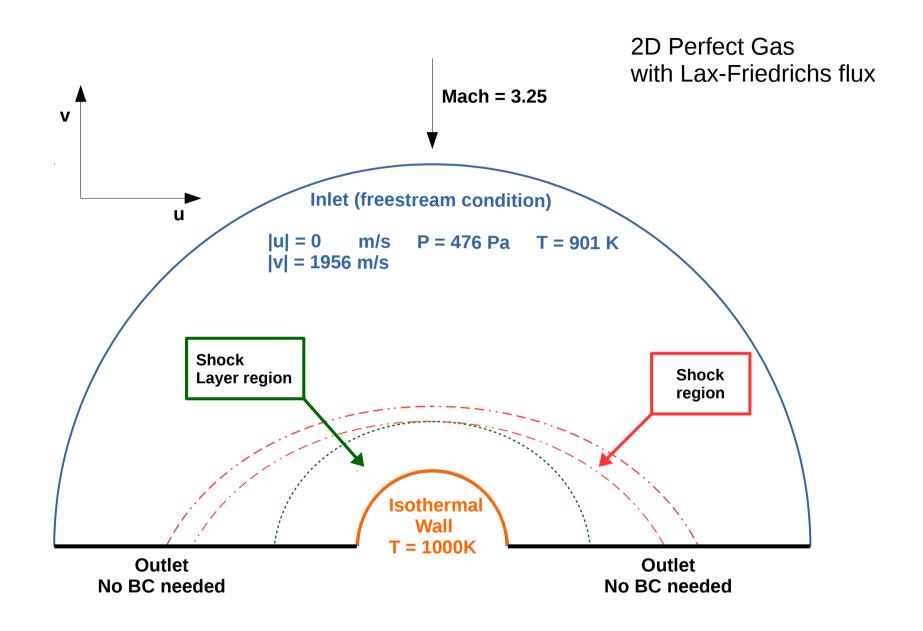




#### STRUCTURE OF THE INPUT FILE for our case



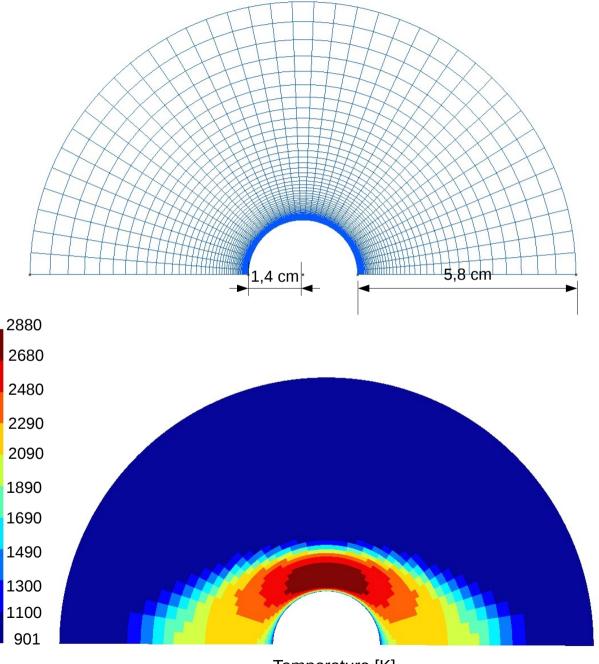




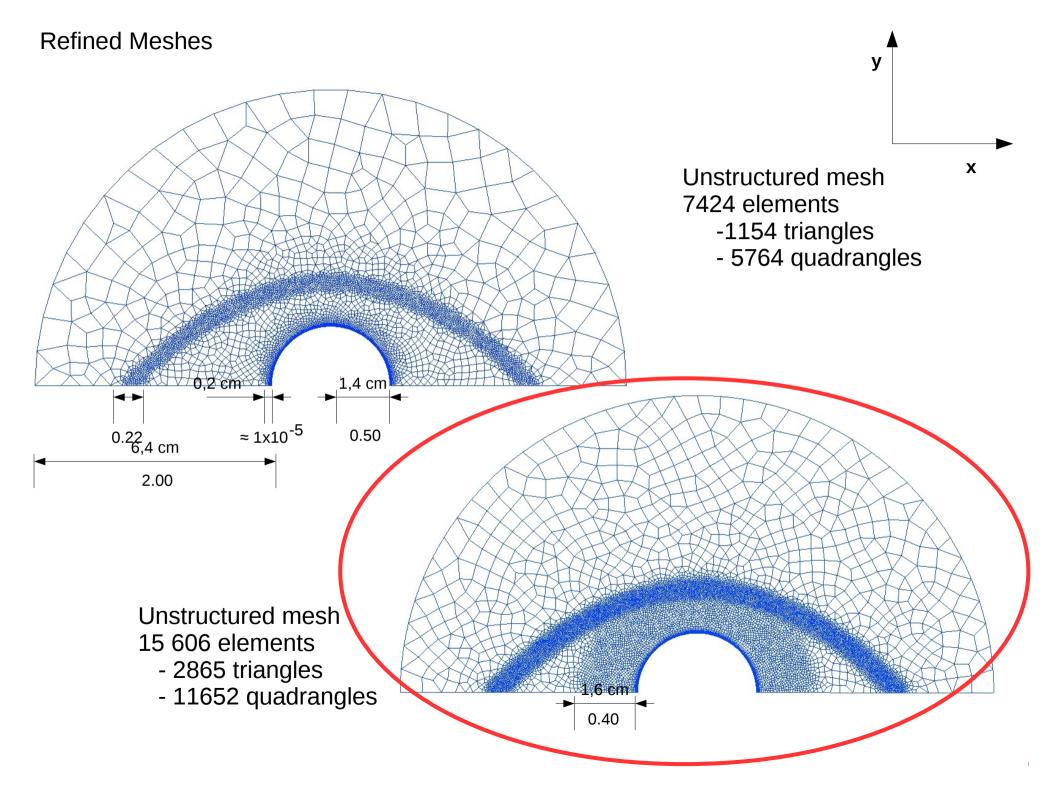
### **Unrefined Meshes**

Coarse structured mesh 3323 elements

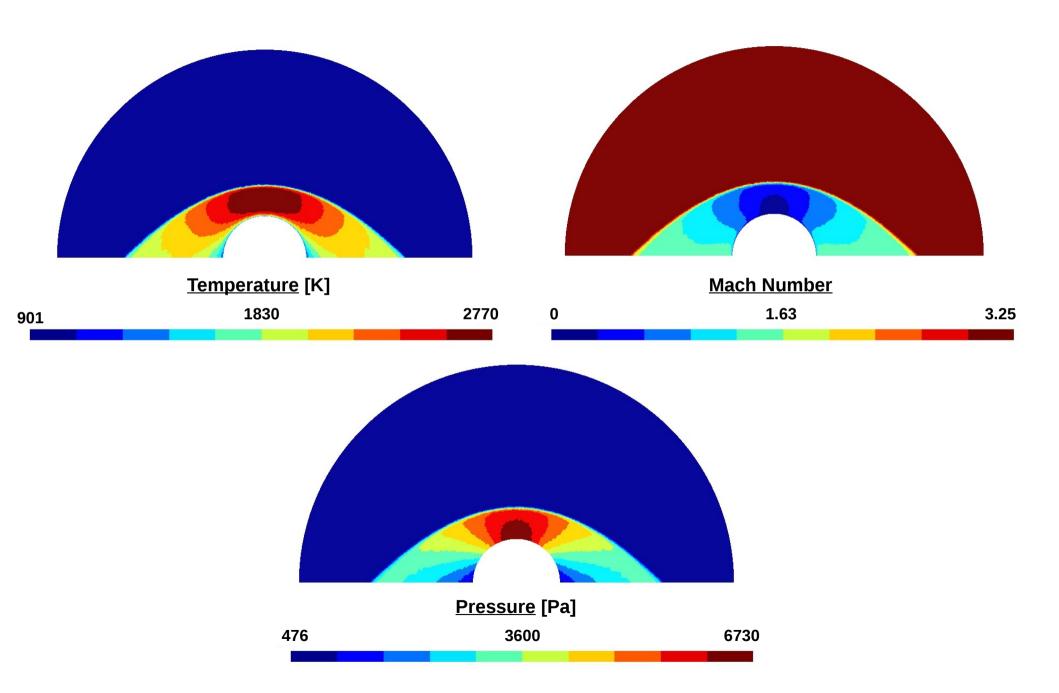
[K]



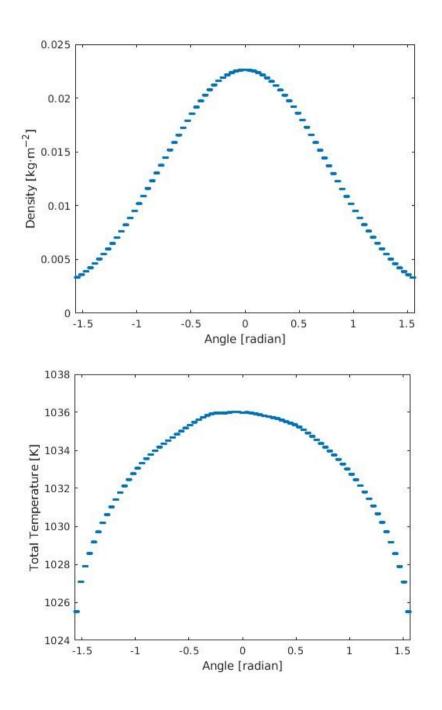
Temperature [K]

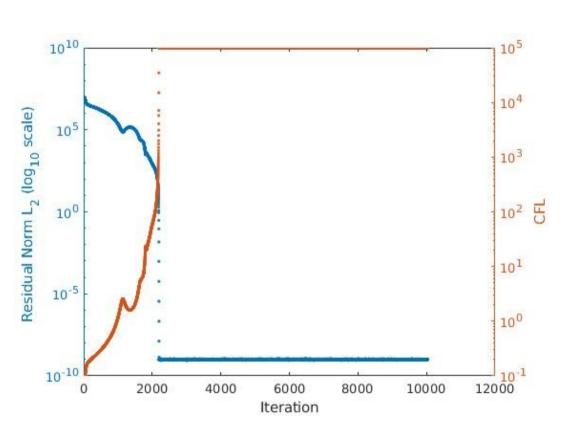


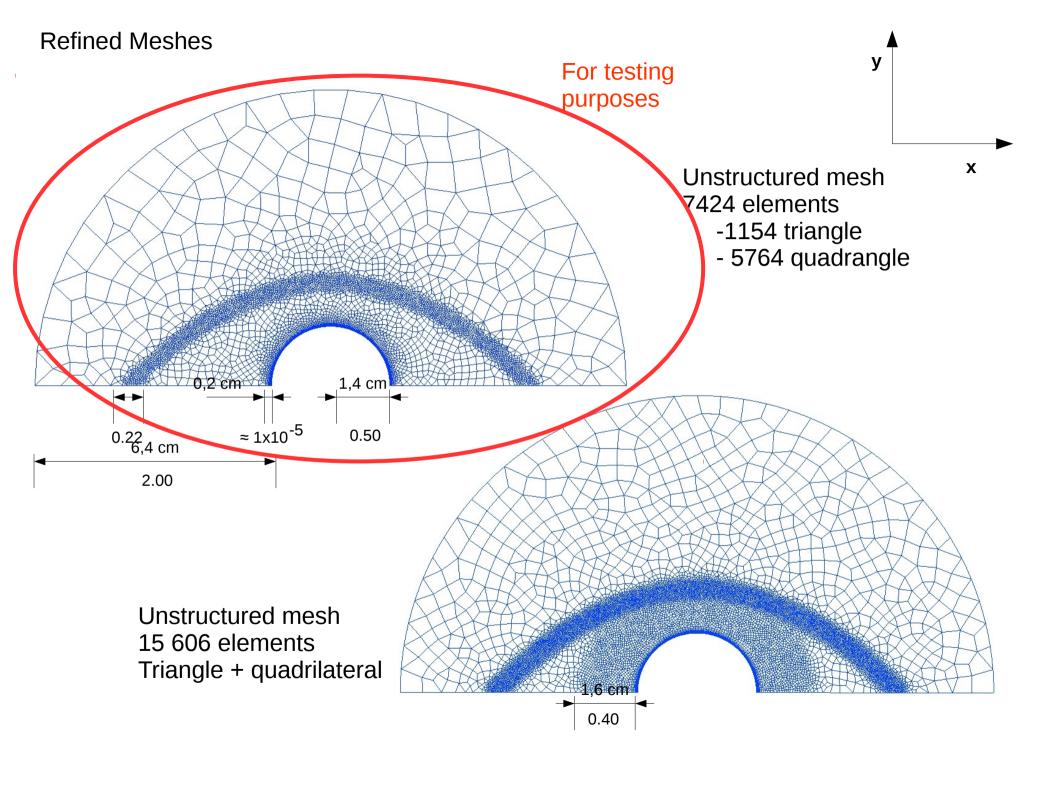
## Solution on Refined 15606 elements mesh P0



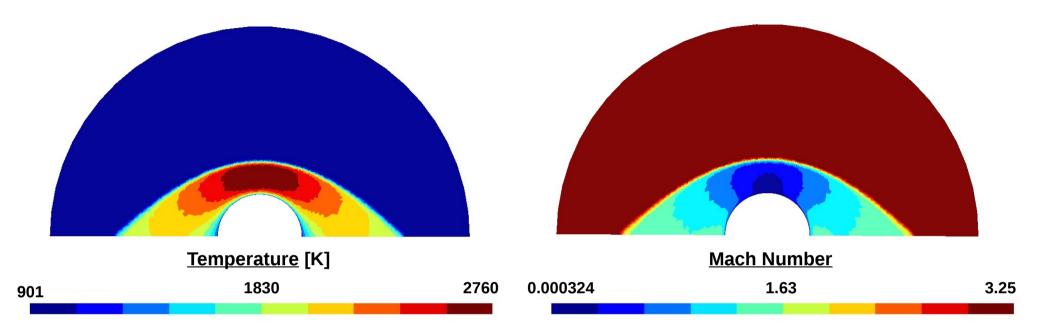
# Solution along the wall on Refined 15 606 elements mesh P0

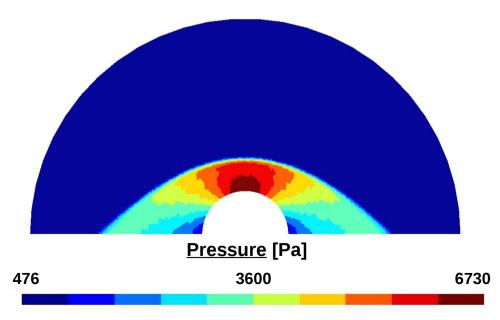




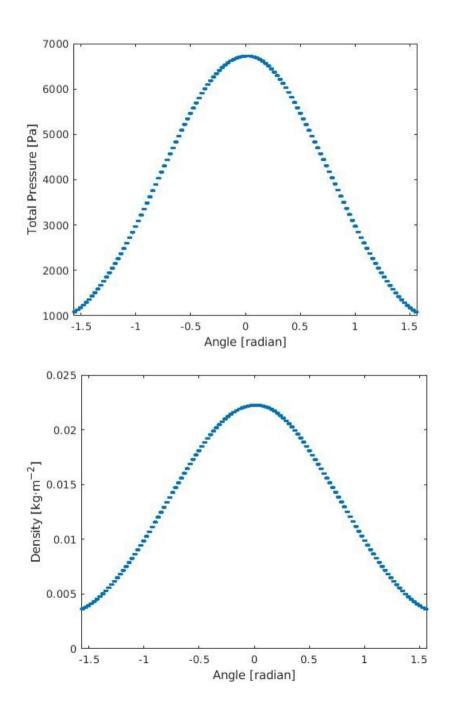


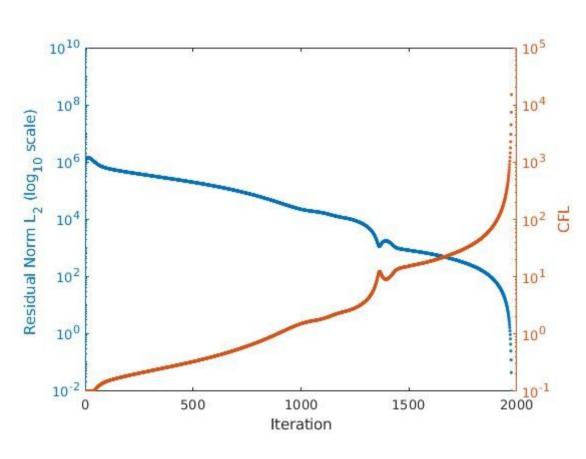
## Solution on Refined 7424 element mesh P0



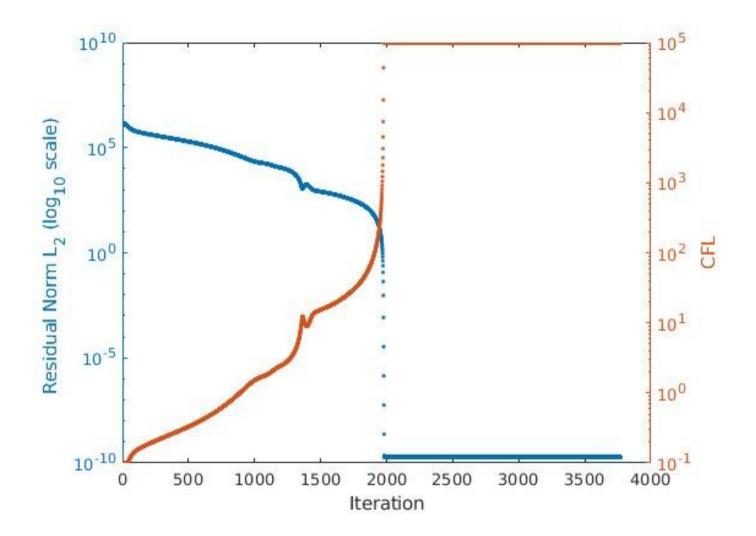


# Solution along the wall on Refined 7424 element mesh P0

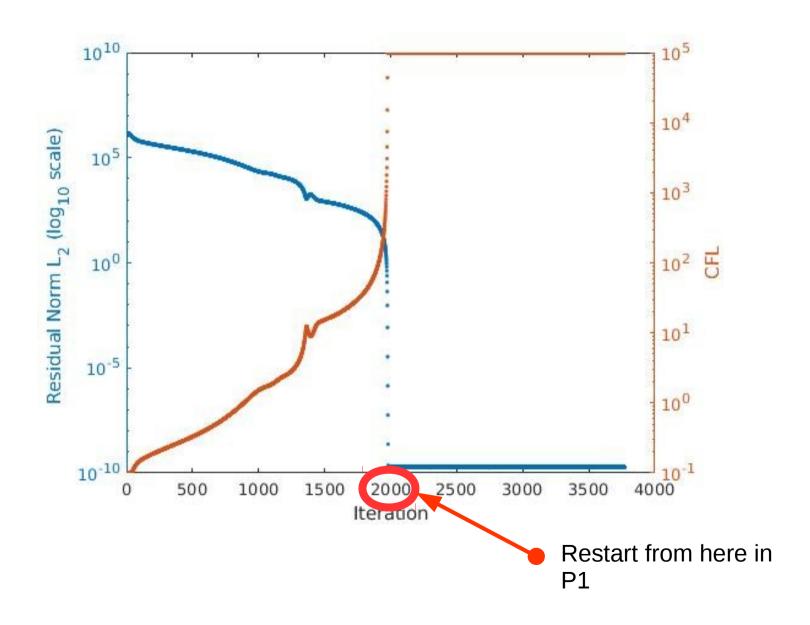




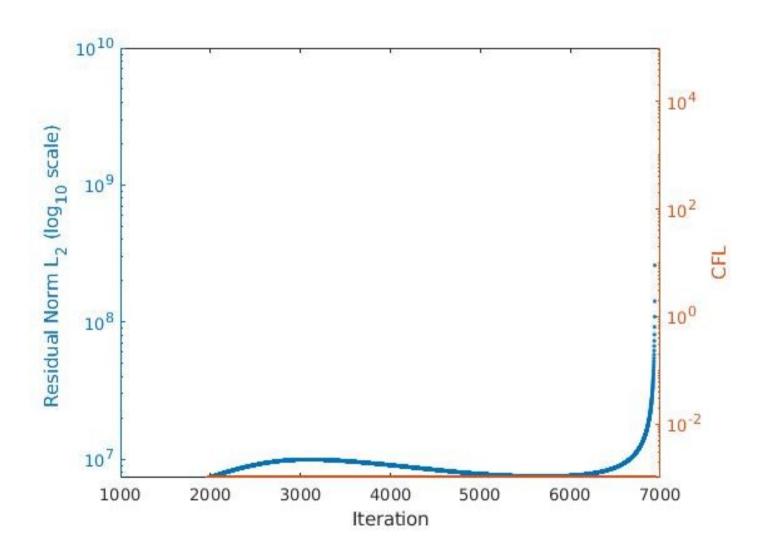
Solution along the wall on Refined 7424 elements mesh P0 try to get more precision... (ie increase the order of the polynomial to degP=1)



Solution along the wall on Refined 7424 elements mesh P0 try to get more precision... (ie increase the order of the polynomial to degP=1)



# Solution along the wall on Refined 7424 element mesh **P1** without Artificial Viscosity



# Solution along the wall on Refined 7424 element mesh **P1 WITH Artificial Viscosity**

**COMING SOON!**