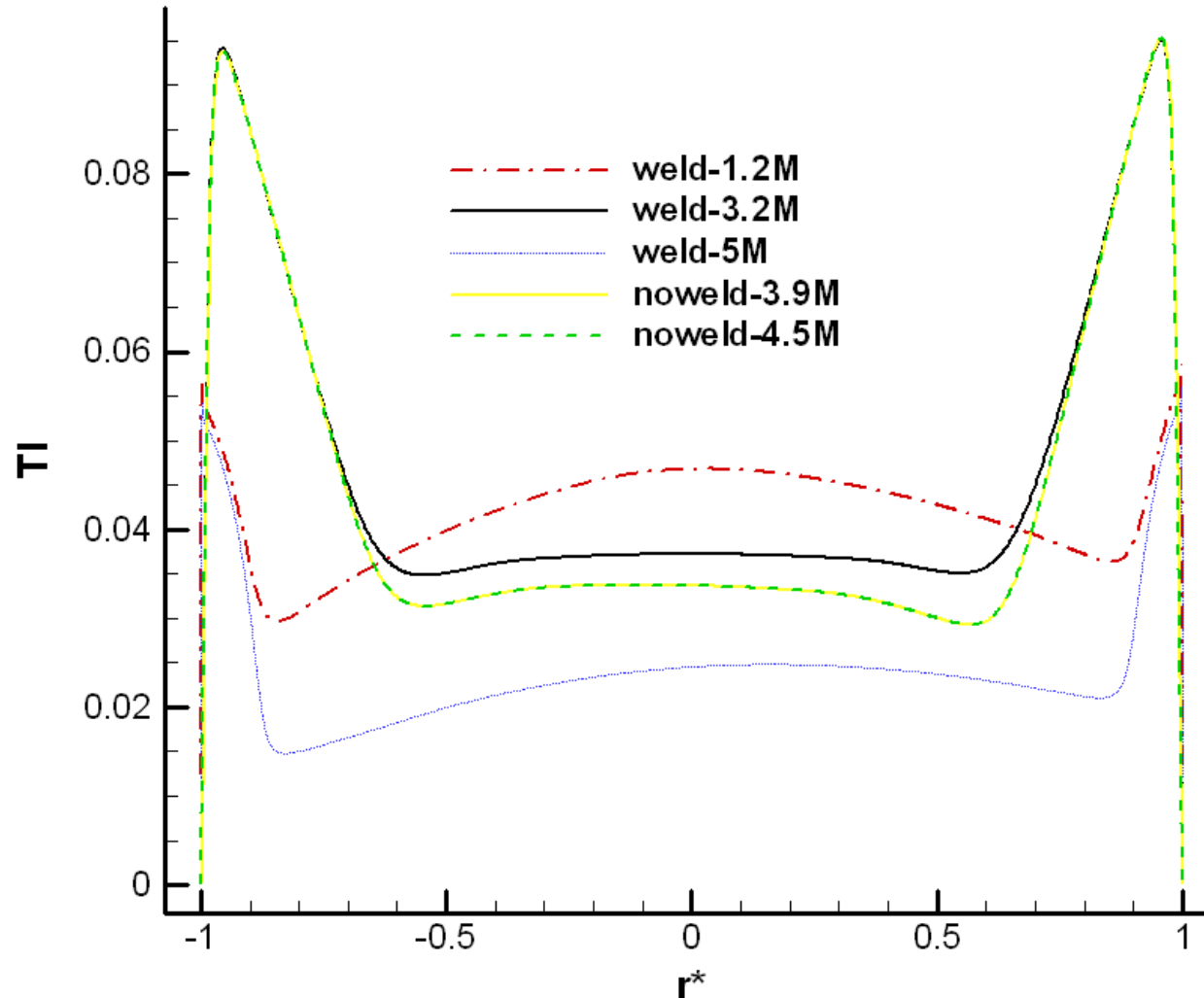


Turbulence Intensity Comparisons with/without Welds

Oct. 18, 2012

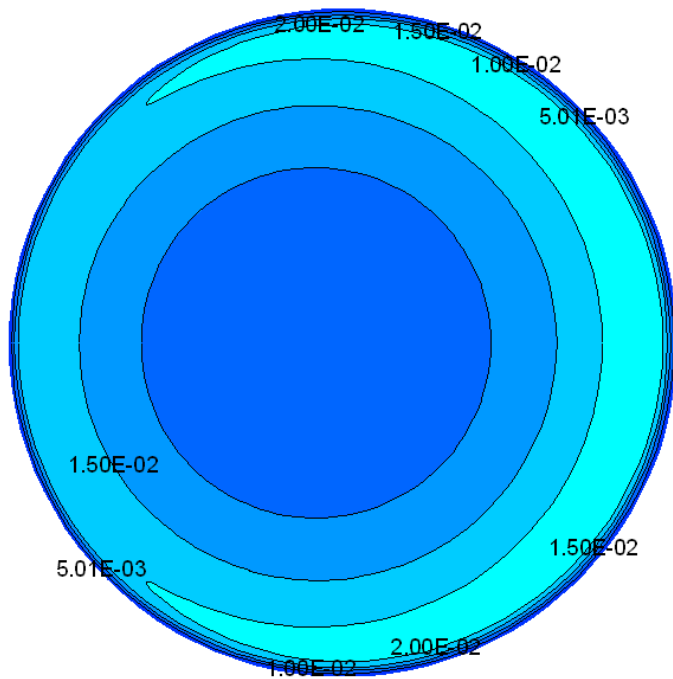
Yan Zhan

Line Plot of TI at the Pipe Exit

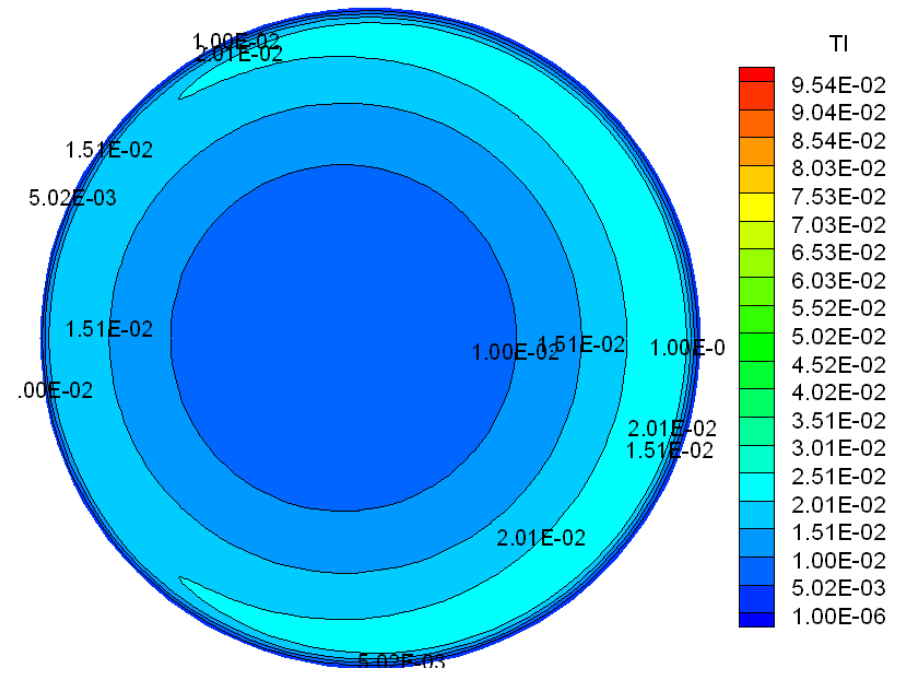


Contour of Turbulence Intensity ($\theta_1 = 0$)

(a-1) $\theta_1 = 0$ (with a weld - 3.2M)

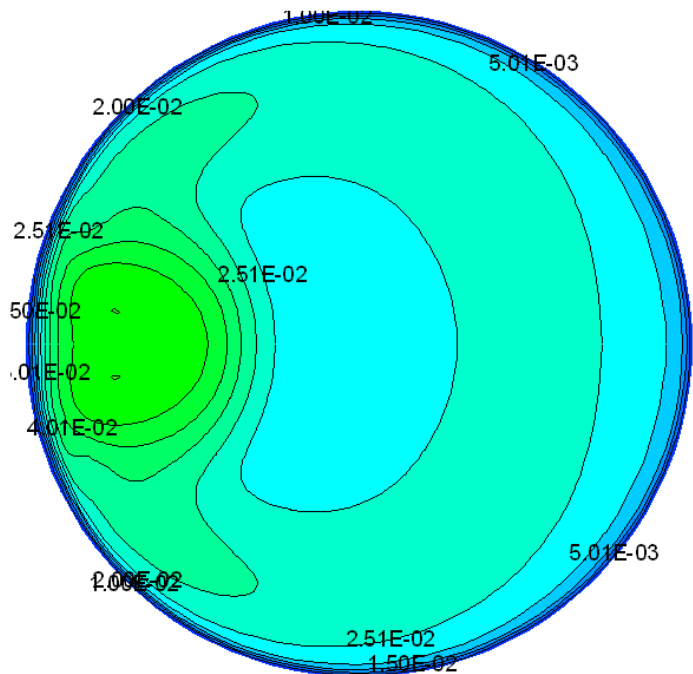


(b-1) $\theta_1 = 0$ (without a weld - 3.9M)

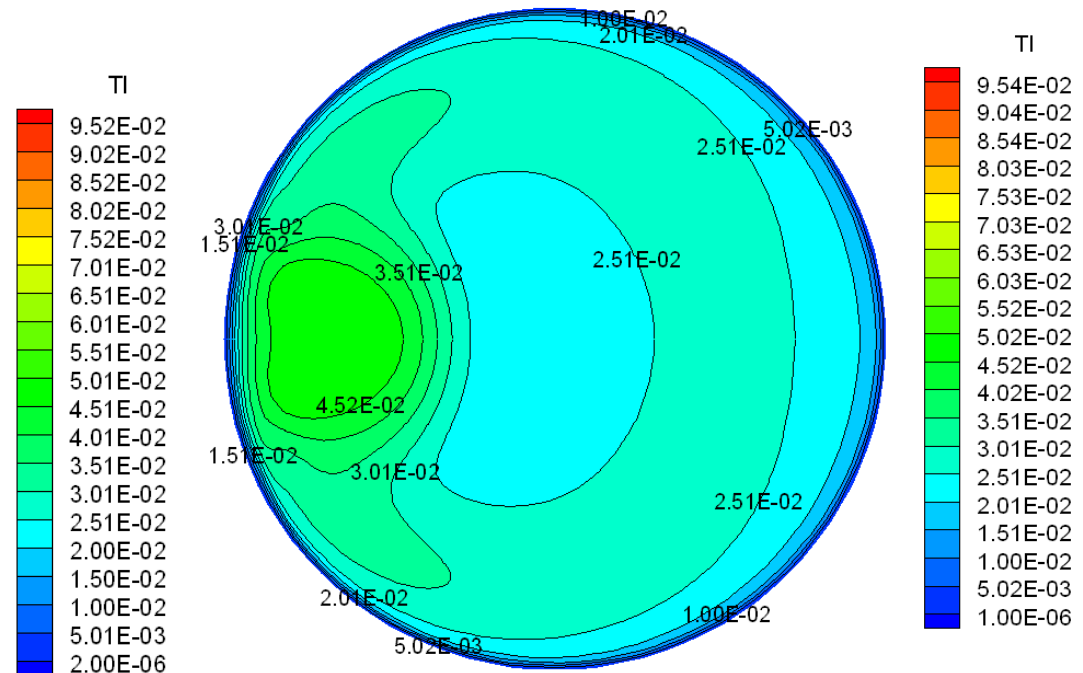


Contour of Turbulence Intensity ($\theta_1 = 90$)

(a-2) $\theta_1 = 90$ (with a weld - 3.2M)

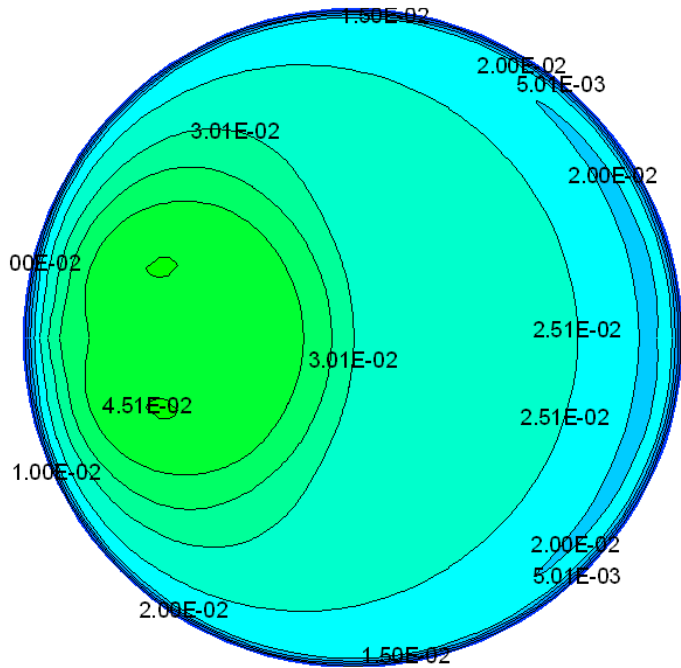


(b-2) $\theta_1 = 90$ (without a weld - 3.9M)

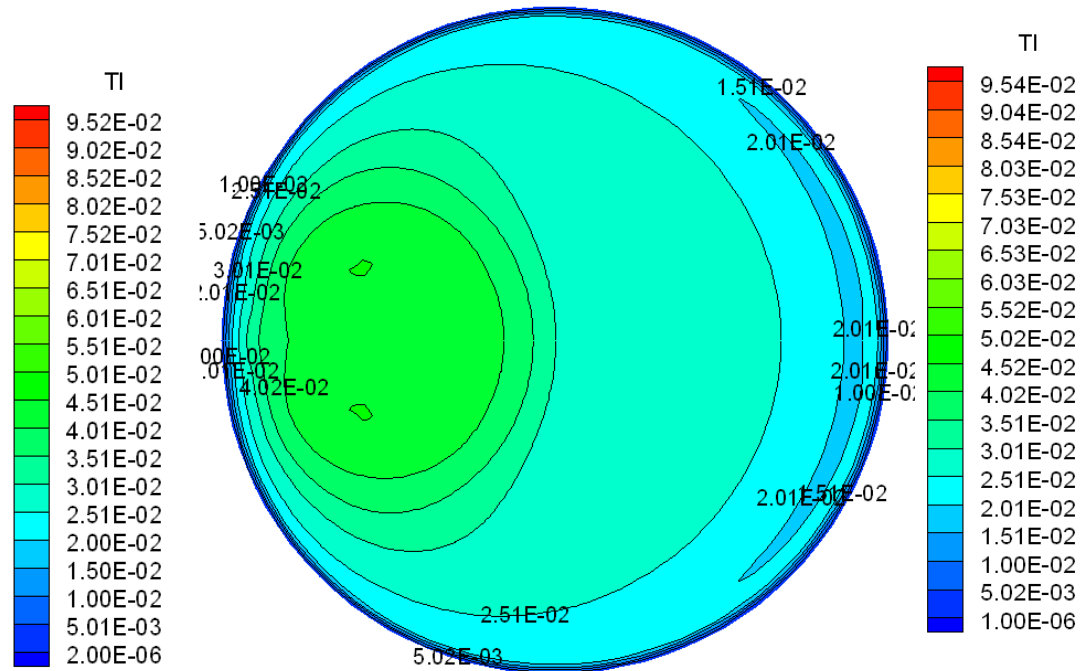


Contour of Turbulence Intensity ($\theta_2 = 0$)

(a-3) $\theta_2 = 0$ (with a weld - 3.2M)

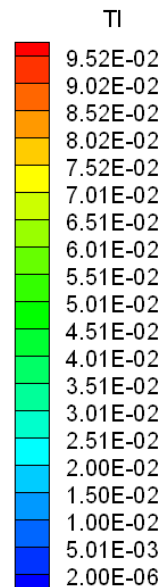
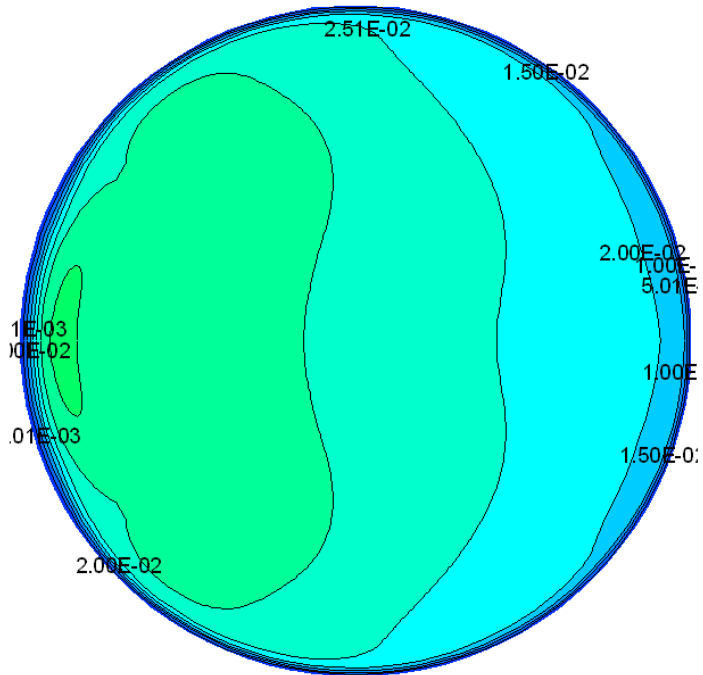


(b-3) $\theta_2 = 0$ (without a weld - 3.9M)

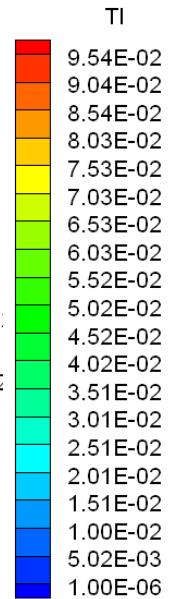
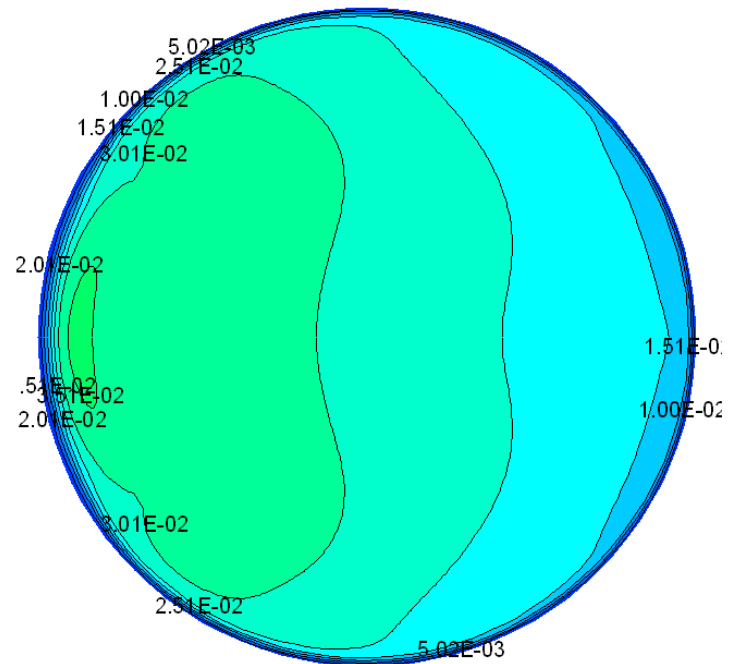


Contour of Turbulence Intensity ($\theta_2 = 90$)

(a-4) $\theta_2 = 90$ (with a weld - 3.2M)

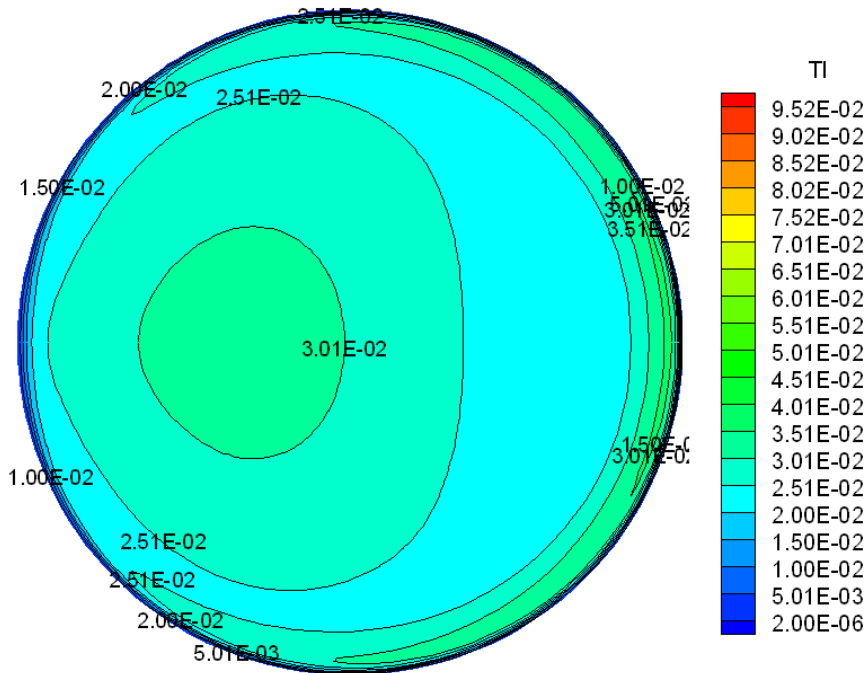


(b-4) $\theta_2 = 90$ (without a weld - 3.9M)

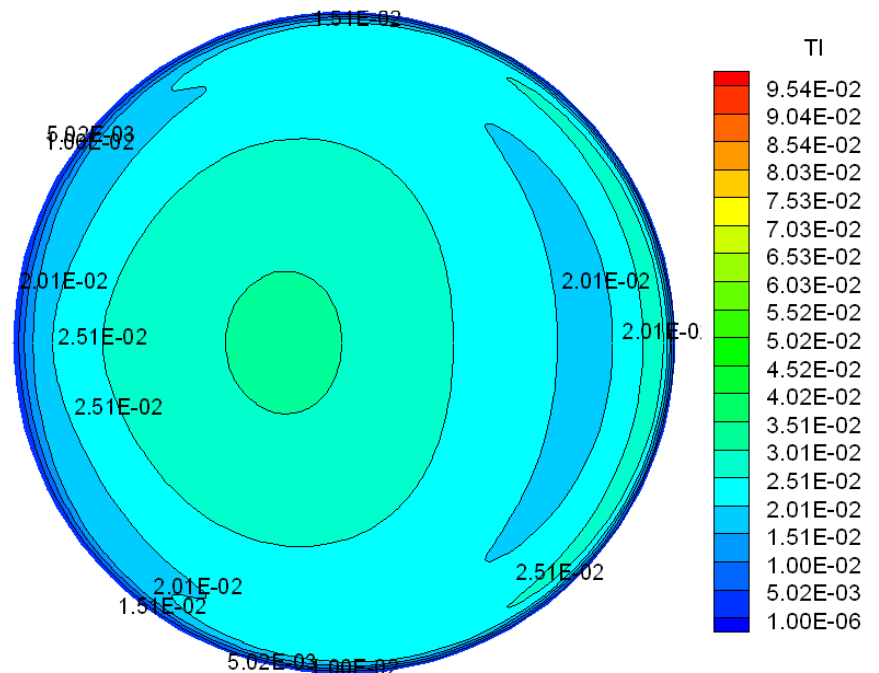


Contour of Turbulence Intensity (s= 3.36)

(a-5) s = 3.36 (with a weld - 3.2M)

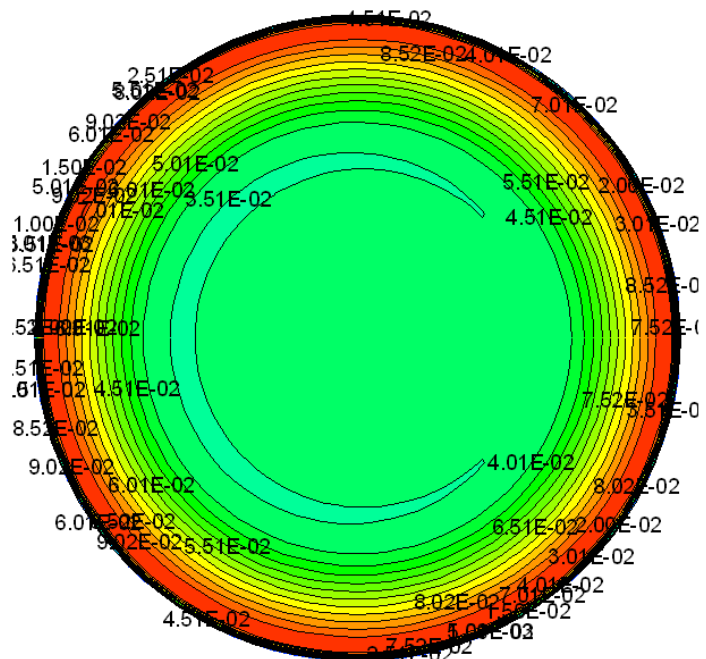


(b-5) s = 3.36 (without a weld - 3.9M)



Contour of Turbulence Intensity (s= 8.3375)

(a-6) s = 8.3375 (with a weld - 3.2M)



(b-6) s = 8.3375 (without a weld - 3.9M)

