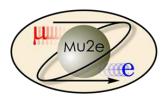




My experience as FNAL summer student

Gabriele Taddei MUSE General Meeting 30 September 2016





Università di Pisa

About myself

Name: Gabriele

Surname: Taddei

Place of birth: Pietrasanta (LU)

Date of birth: 03 October 1992

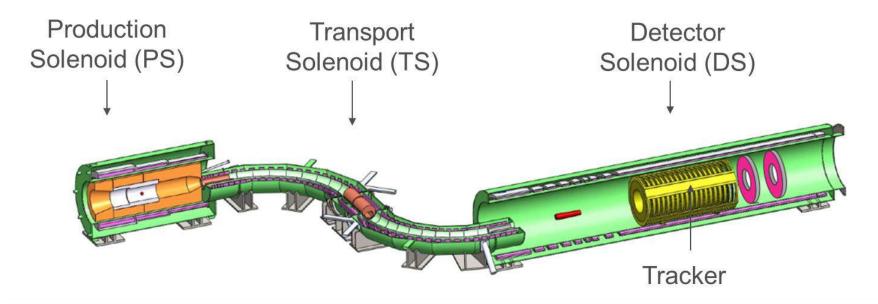
Residence: Camaiore (LU)

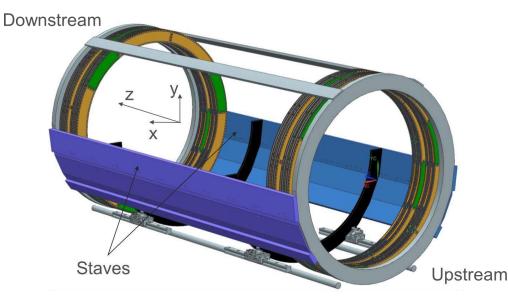


Education: Bachelor Degree in Mechanical Engineering at University of Pisa

Currently attending Master Degree in Mechanical Engineering at University of Pisa

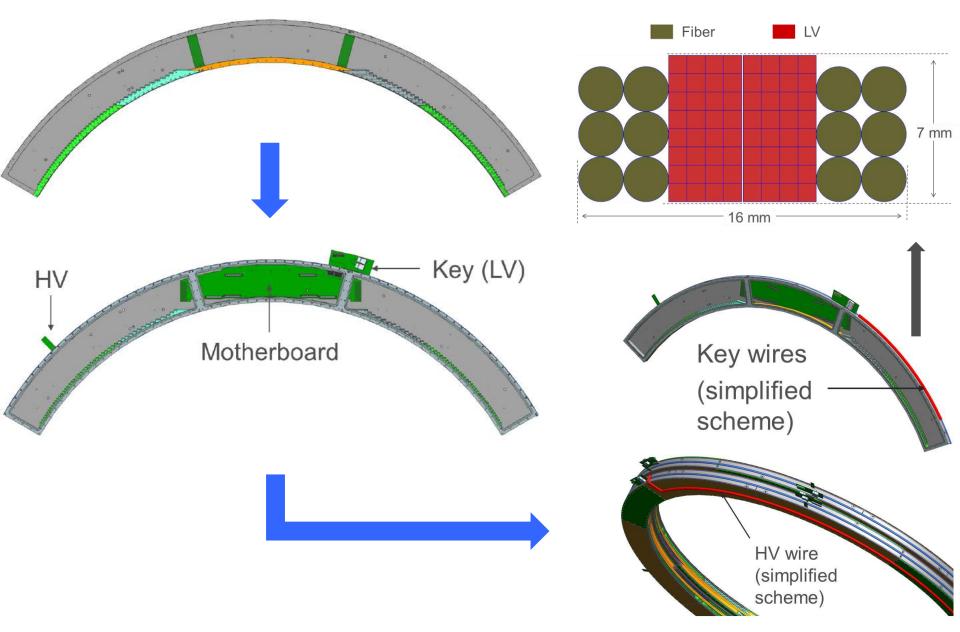
Mu2e DS Tracker



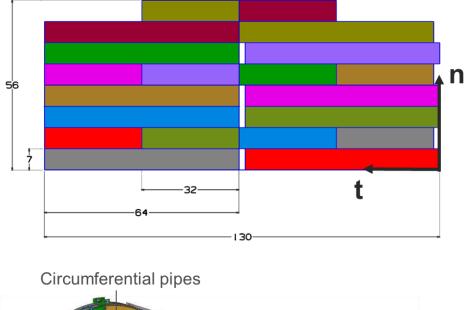


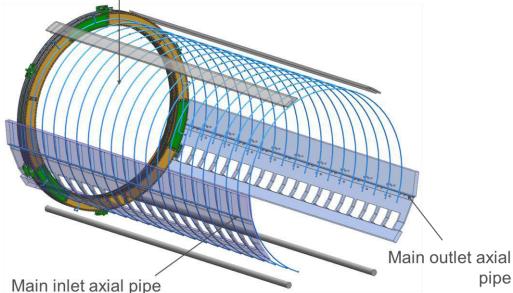
- 1. Conceptual design of electrical and gas system
- 2. Analytical evaluation of mounting planes uncertainty
- 3. Planes contact pressure analysis

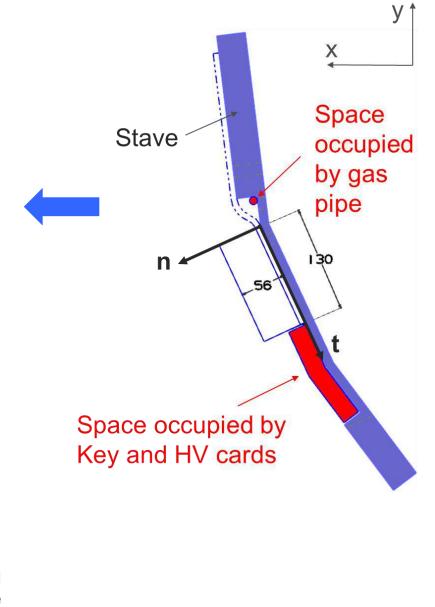
T1: Conceptual design of electrical and gas system



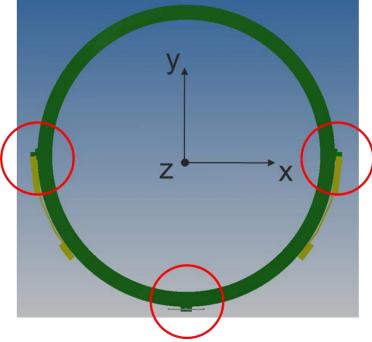
T1: Conceptual design of electrical and gas system

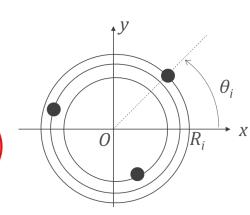


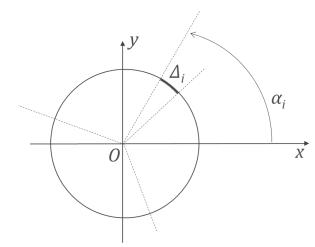


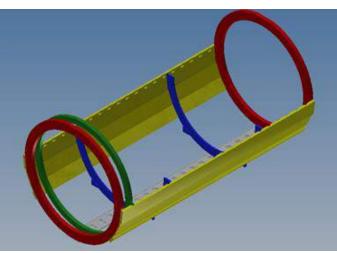


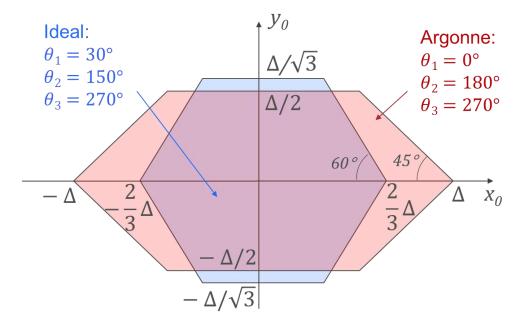
T2: Analytical evaluation of mounting planes uncertainty







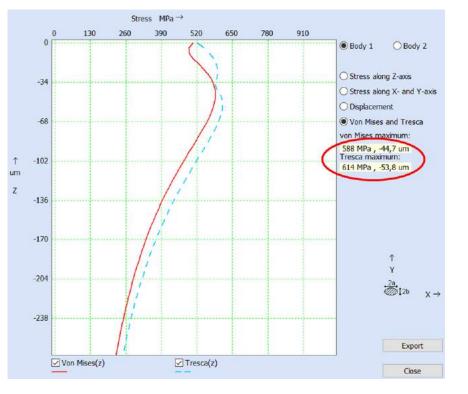




T3: Planes contact pressure analysis

 $R_s = 9.525 \text{ mm}$ $R_{cg} = 9.600 \text{ mm}$ (both stainless steel)

SF = 1.01 🗙



 $R_s = 9.525 \text{ mm}$ (silicon-nitride ceramic ball)

 $R_{cg} = 9.600 \text{ mm}$ (stainless steel, coated with WC)

SF = 2.91

 $R_s = 4.850 \text{ mm}$ (silicon-nitride ceramic ball)

 R_{cg} = 4.900 mm (stainless steel, coated with WC)



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A tormented application

Dec '14: discover of Fermilab internship - not able to apply for

27 Feb '16: transmission of required documents to Dr. Donati

7 Mar '16: interview with Dr. Donati

20 May '16: deadline for acceptance - no piece of news

22 Jul '16: last night in Rome

23 Jul '16: welcome to United States of America

27 May '16: Dr. Donati's call – acceptance











Fermilab









VENDING







Chicago











Weekend main trips



Taliesin East (Spring Green)



Green Bay

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Milwaukee

New York



My piece of advice is to ... try and go!



Thank you for your attention!