

High-school visits at CERN

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HSSIP

High School Swedish Internship Program



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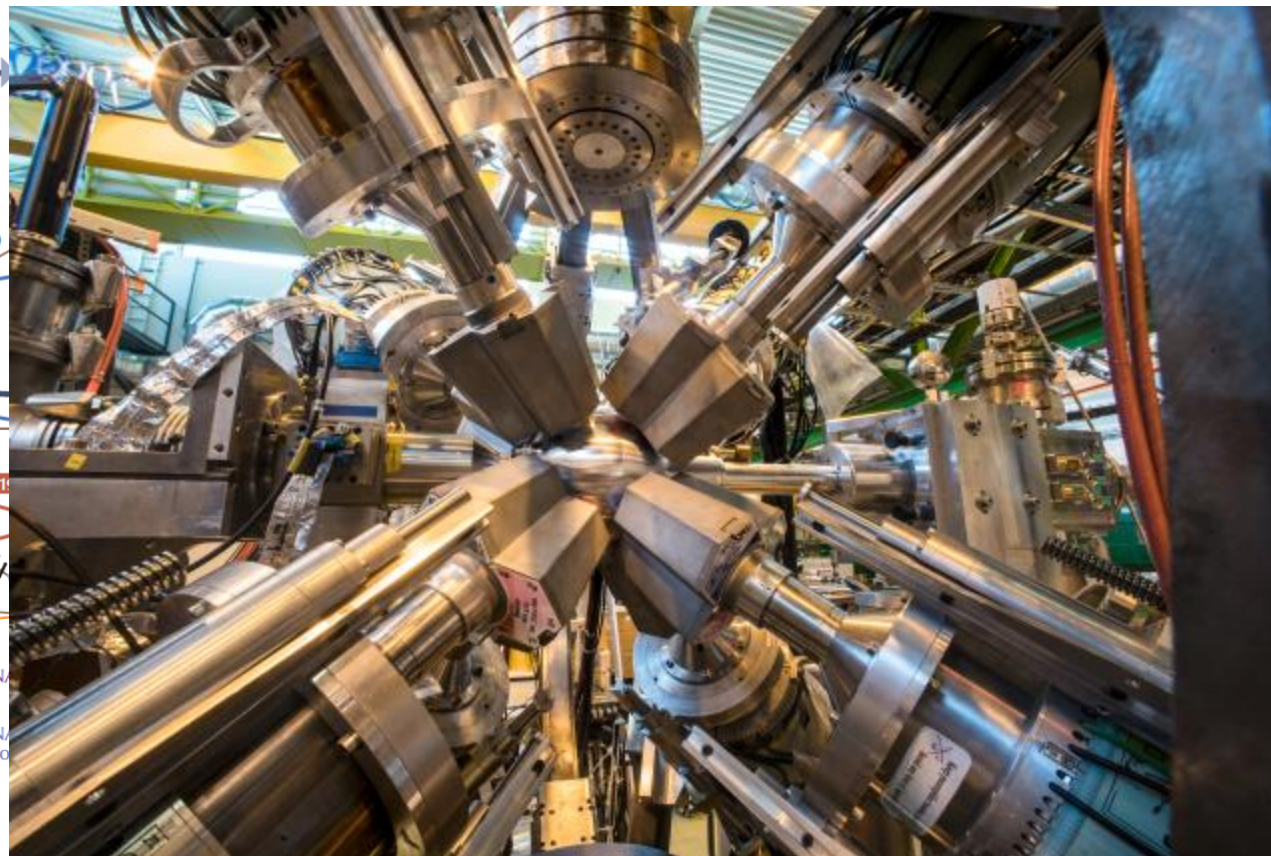
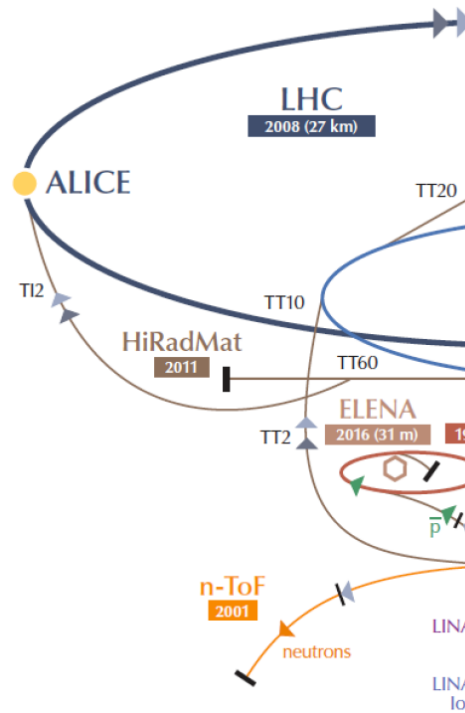


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Miniball



Radiation Protection Awareness - ISOLDE Fundamentals



ISOLDE



INFO SPEAKER TEXT

Search...

- 1. Electrical Safety - Awareness
- 2. Disclaimer
- 3. Objectives of the course
- 4. Instructions**
- 5. List of Chapters
- 6. The electrical circuit
- 7. Sockets
- 8. Electrical equipment at CERN
- 9. Failures
- 10. Electrical shocks
- 11. Direct contact
- 12. Indirect contact
- 13. Electrical shocks: physiological effects
- 14. Burns
- 15. Appropriate behaviour

Electrical Safety - Awareness Instructions

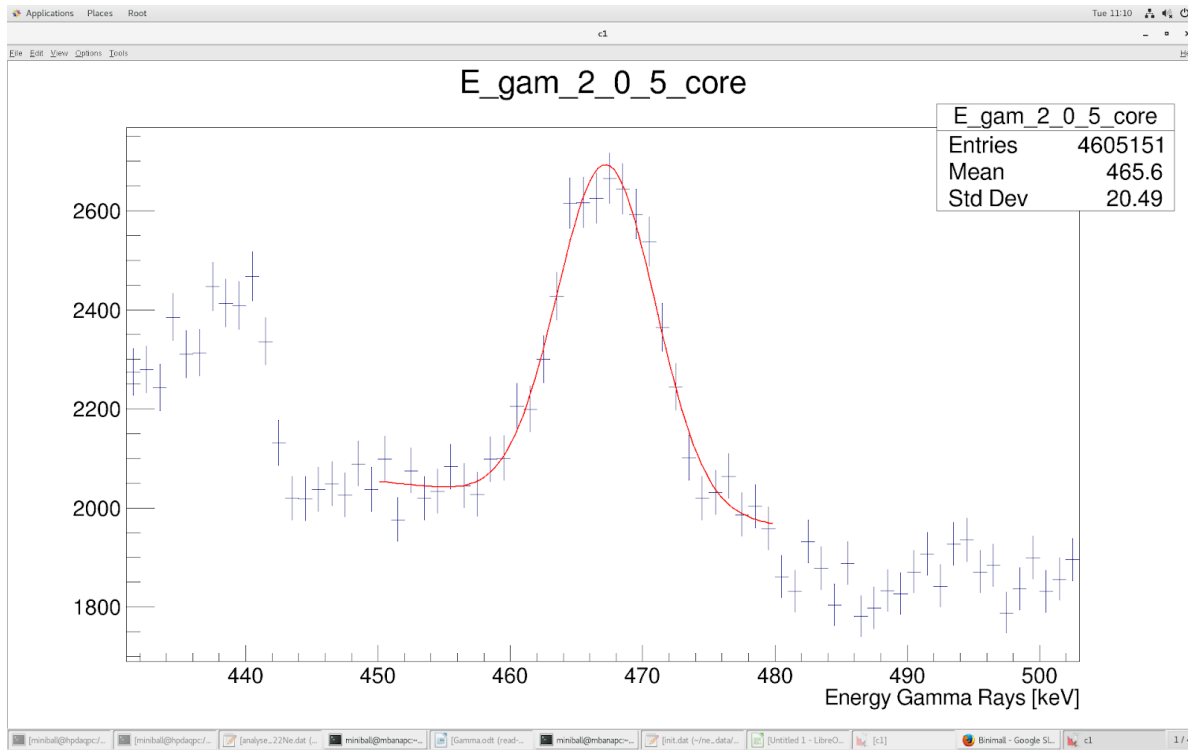
Please turn on the **sound**

RP COURSE / SUPERVISED RADIATION AREAS - INTRODUCTION



You are going to follow the training module:
« Introduction to radiological risks in CERN Supervised Radiation Areas »
Passing the test that follows is necessary to work in a Supervised Radiation Area.





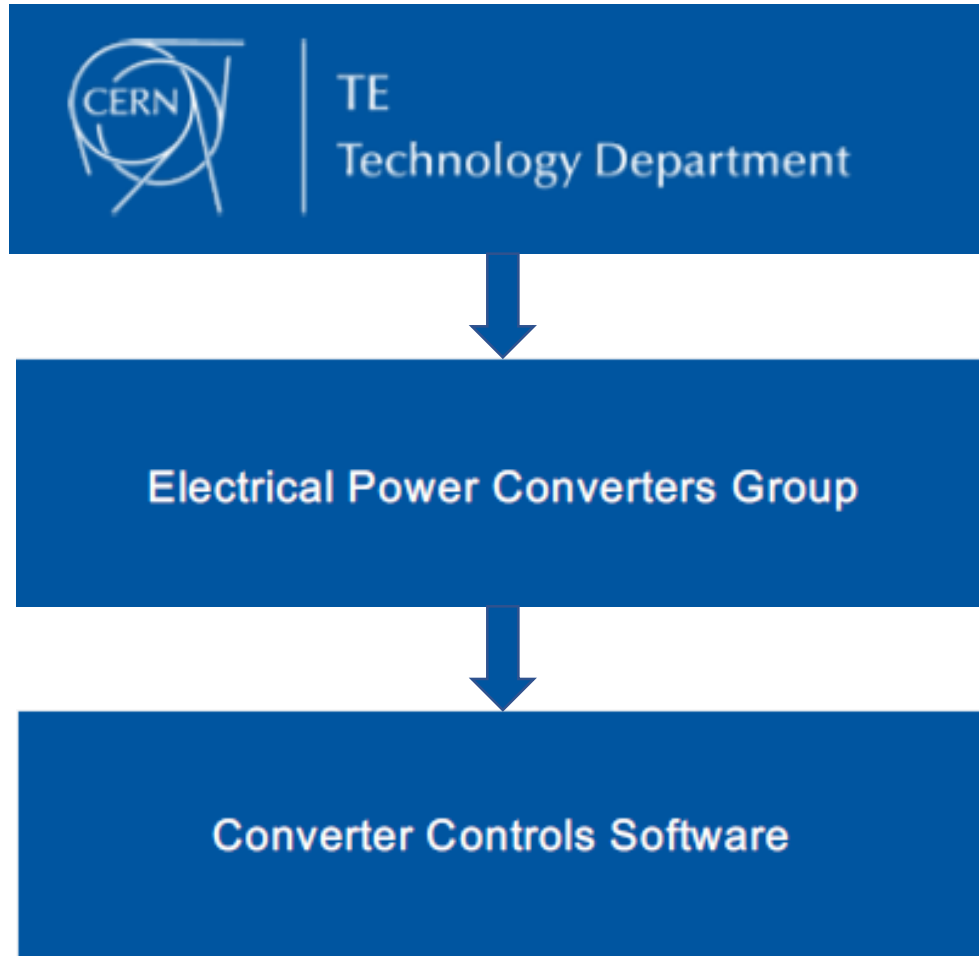
```

Content 5.15460e+03 2.07525e+02 2.12224e-01 4.31078e-07
Mean 1.97218e+02 4.20519e-02 9.40410e-05 1.05275e-03
Chi Square: 8.524327
Fitted: 2.663662 +- 0.111273
16) FitSinglePeak(E_gamma 0 0 1 core, 300, 350)
17.789 FROM MIGRAD STATUS=CONVERGED 698 CALLS 699 TOTAL
EDM=1.0857e-08 STRATEGY=1 ERROR MATRIX ACCURATE
PARAMETER NAME VALUE ERROR SIZE DERIVATIVE
BgConstant 3.44258e+03 1.67492e+02 3.78887e-02 -1.83189e-05
BgSlope 19.385904
Sigma 3.72354e+00
Content 4.44249e+03
Mean 4.67248e+02
Chi Square: 19.385904
Fitted: 8.768265 +- 0.428881
  
```

The terminal window also displays several plots: 'Convergence' showing the fit quality over iterations, 'Energy difference' showing the residuals of the fit, and various parameter plots for theta, phi, and alpha.







- Power converters → Induces the magnetic fields in the accelerators
- Control systems → Controls and corrects the current from the power converters
- Our job → To create a newer version of the program that tests the programming in the control systems

- Test section → choose a program, edit and run it
- Analysis section → open files and analyse them

