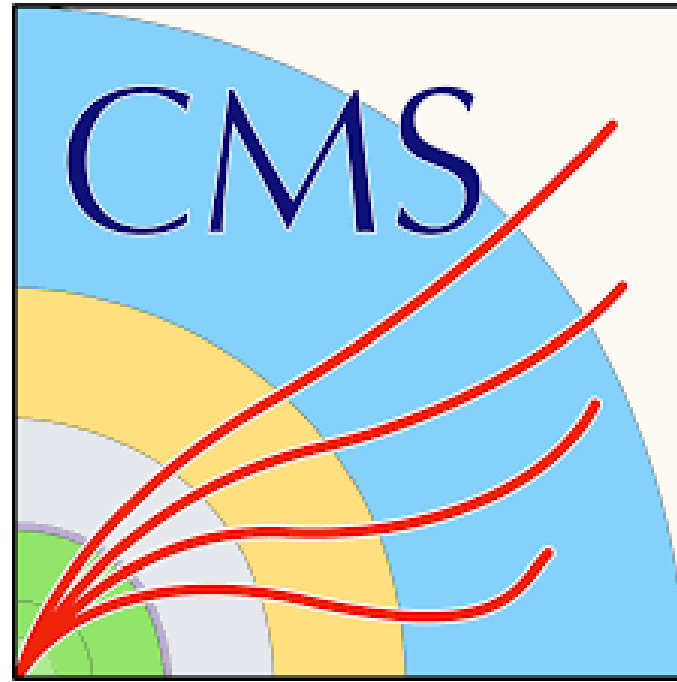
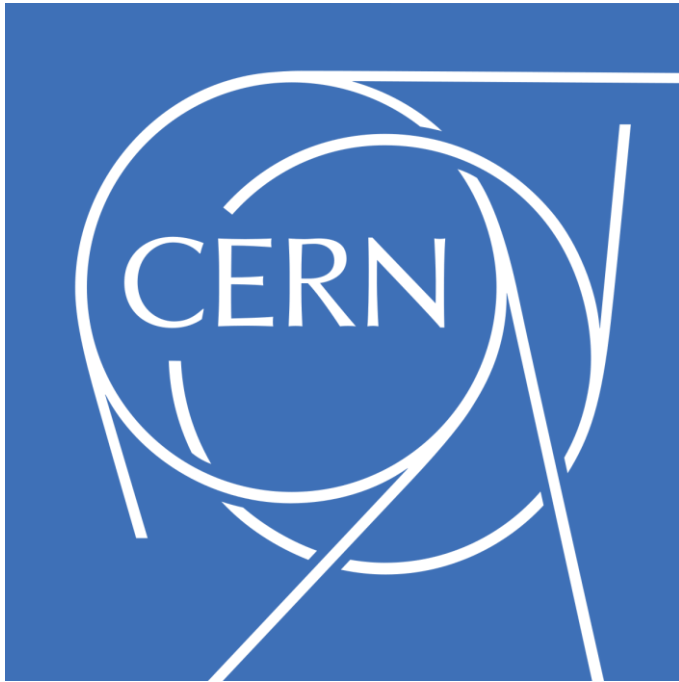


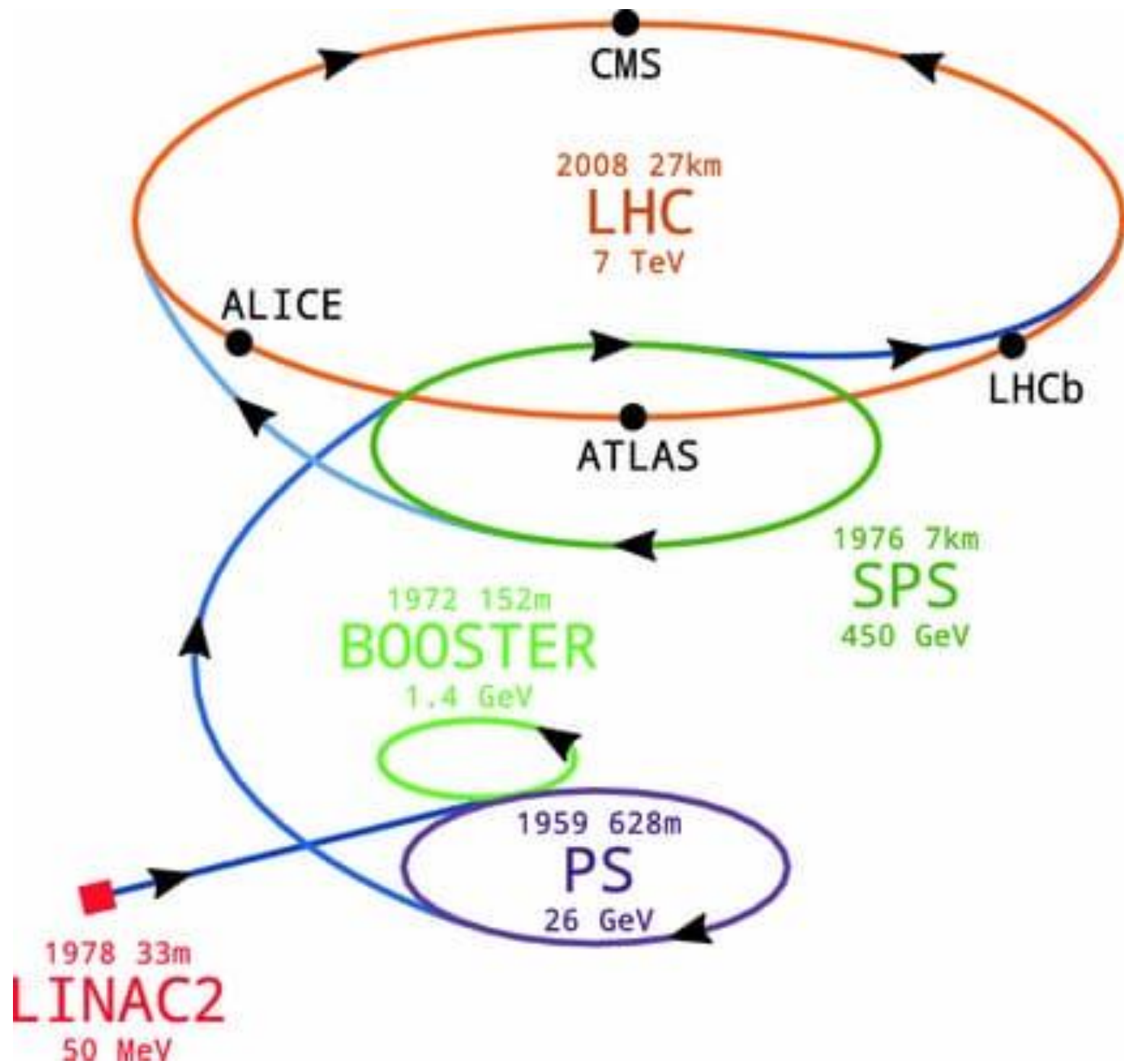
Our experience at CERN





CMS data analysis

Faye & Kaat



Supervisors

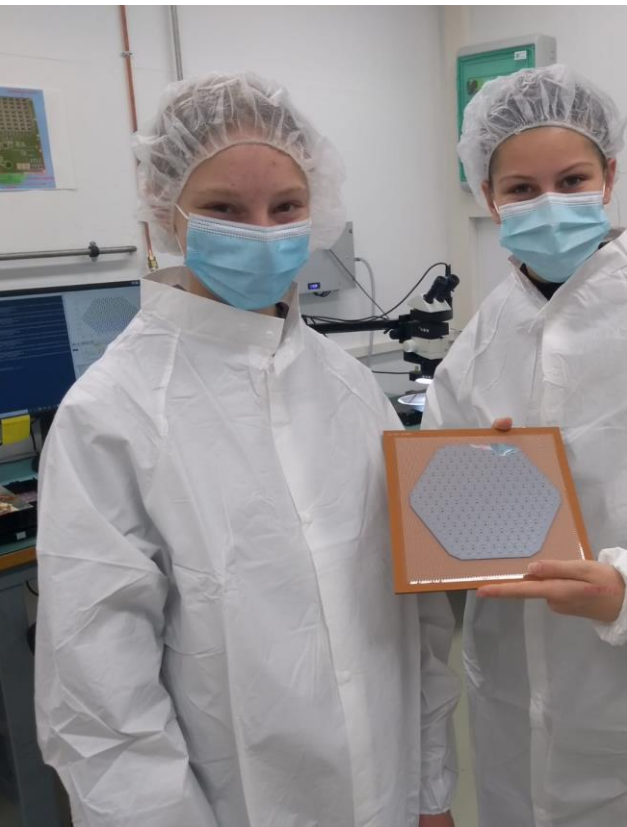
- Pieter Everaerts
- Filip Moortgat



What did we do?

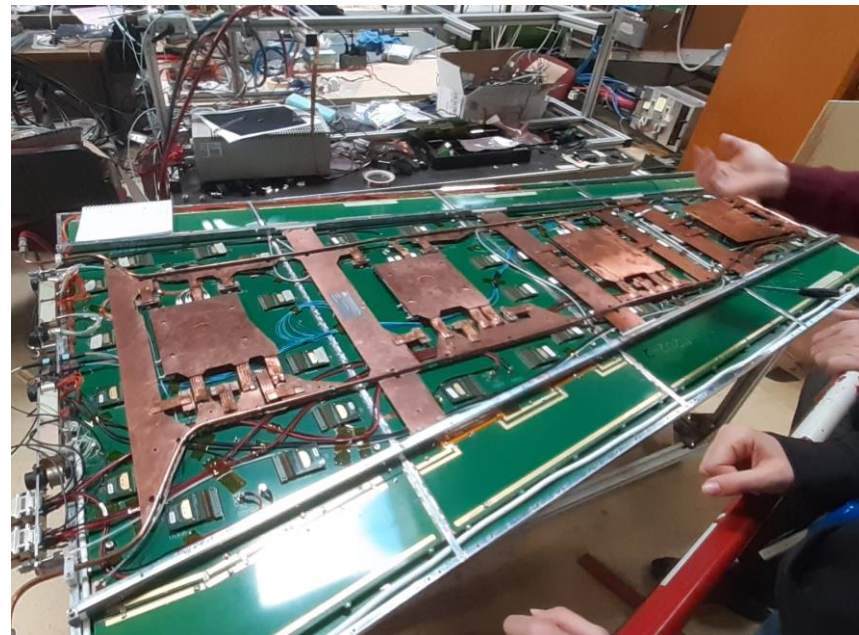
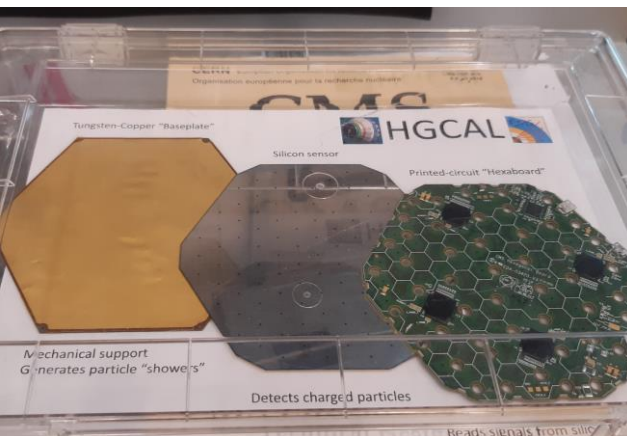
- Supervisors and their work
- CMS:
 - New parts
 - Test beam
 - Data

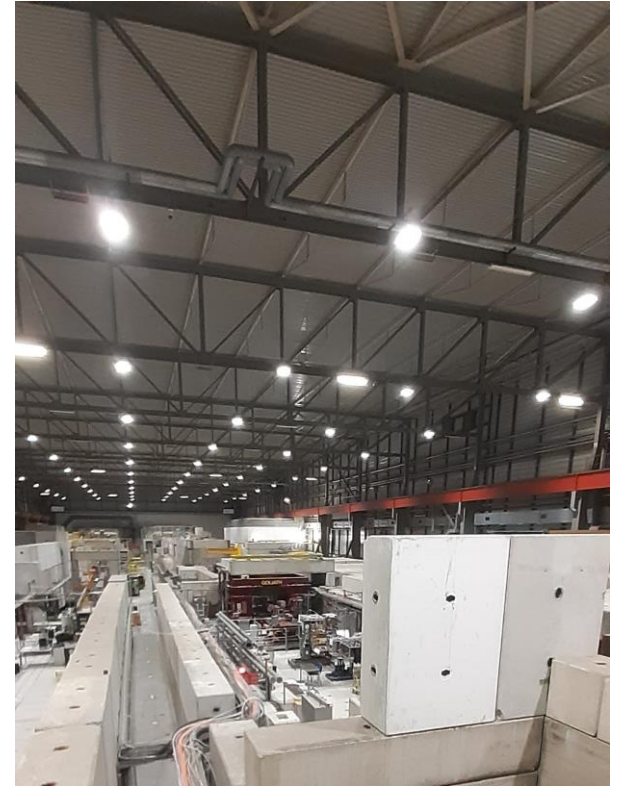




New parts

- Clean room
- Workshop





Test beam

More...

```
def draw_all_m(h1, h2, h3, h4, h5, h6, c):
    c.cd(1)
    h1.GetAxis().SetTitle("Invariant mass (MeV)")
    h1.GetYaxis().SetTitle("n. of Particles")
    h1.Draw()
    c.Update()

    c.cd(2)
    h2.GetAxis().SetTitle("Invariant mass (MeV)")
    h2.GetYaxis().SetTitle("n. of Particles")
    h2.Draw()
    c.Update()

    c.cd(3)
    h3.GetAxis().SetTitle("Invariant mass (MeV)")
    h3.GetYaxis().SetTitle("n. of Particles")
    h3.Draw()
    c.Update()

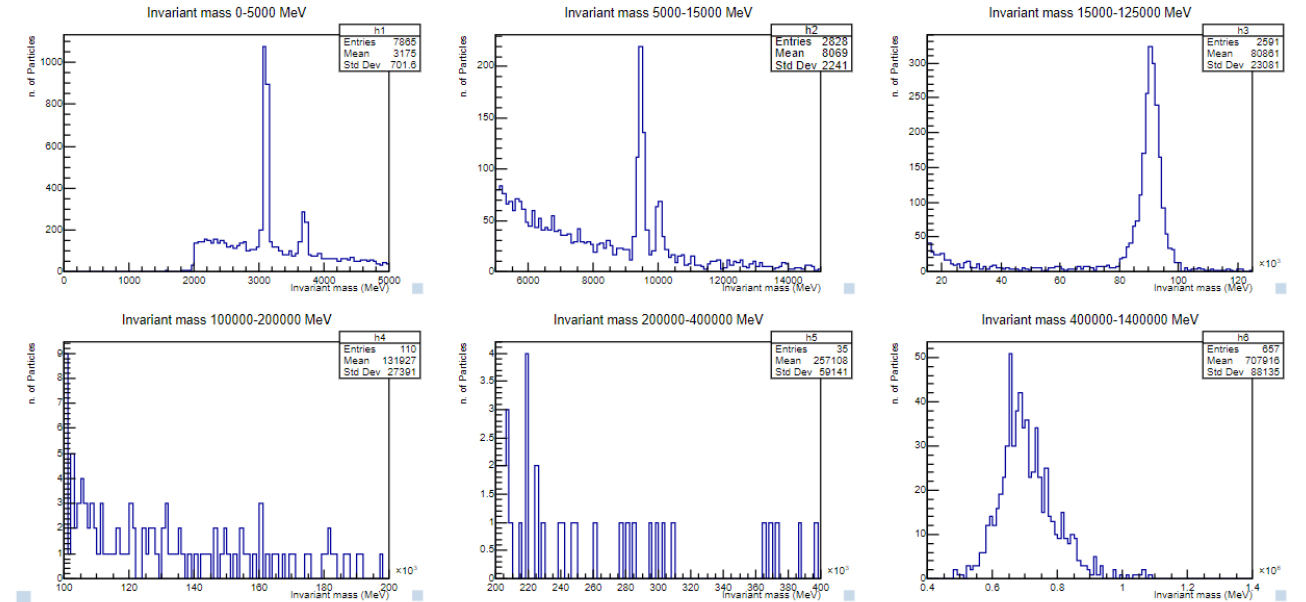
    c.cd(4)
    h4.GetAxis().SetTitle("Invariant mass (MeV)")
    h4.GetYaxis().SetTitle("n. of Particles")
    h4.Draw()
    c.Update()

    c.cd(5)
    h5.GetAxis().SetTitle("Invariant mass (MeV)")
    h5.GetYaxis().SetTitle("n. of Particles")
    h5.Draw()
    c.Update()

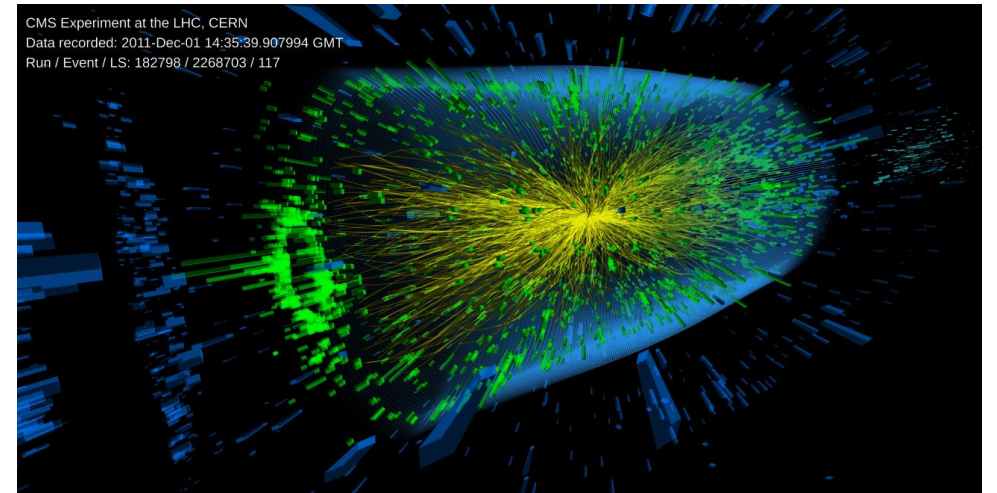
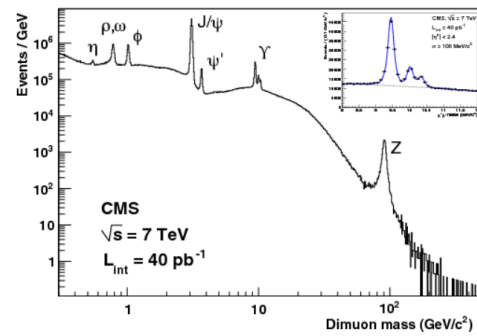
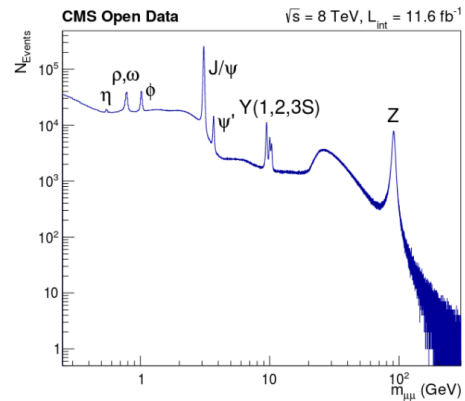
    c.cd(6)
    h6.GetAxis().SetTitle("Invariant mass (MeV)")
    h6.GetYaxis().SetTitle("n. of Particles")
    h6.Draw()
    c.Update()

    c.cd()
    c.Update()
    c.Draw()
```

Info in <TCanvas::Print>: png file dimuon_inv_mass.png has been created



There appear to be peaks around 3.1 GeV, 3.7, 9.5, 10, 90, and 680 GeV



Actions after the internship

- Talk to friends and family
- Inform teachers and school
- Meet up with friends from CERN
- Investigate more about the topic and science in general

Interesting experience?

Of course!!!



THE END

