

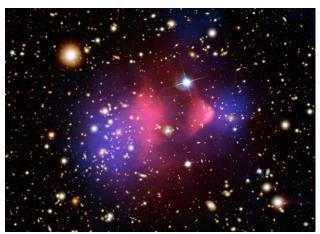


hands on particle physics

Velkommen til MasterClass i partikkelfysikk!

Each year more than 13.000 high school students in <u>60 countries</u> come to one of about 225 nearby universities or research centres for one day in order to unravel the mysteries of particle physics.

Partikkelfysikk handler om å prøve å forstå universet





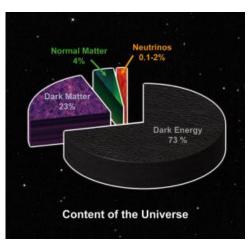


Image credit: NASA

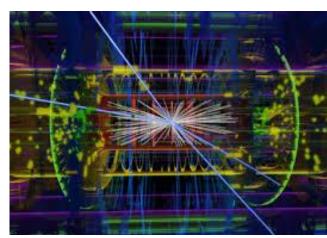


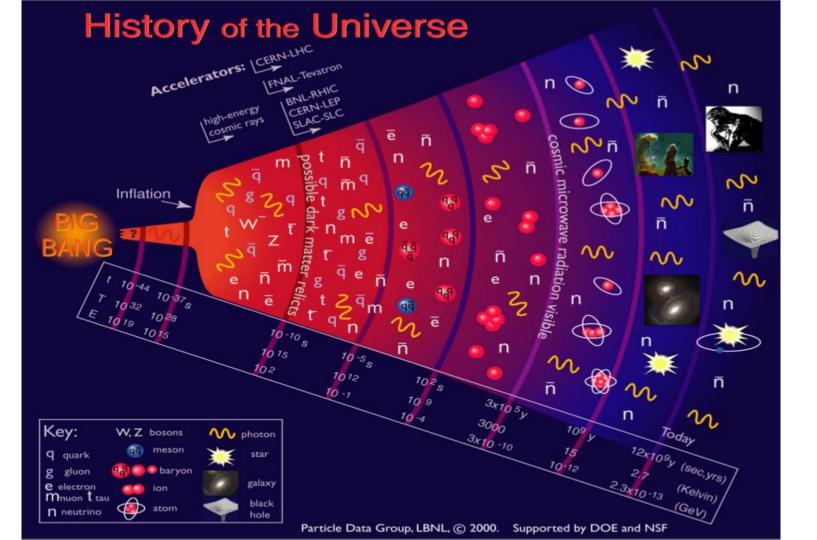
Image credit: The ATLAS Collaboration





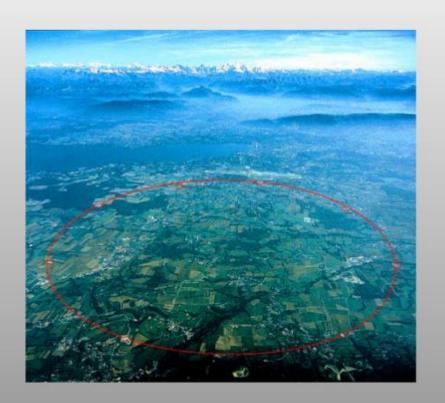




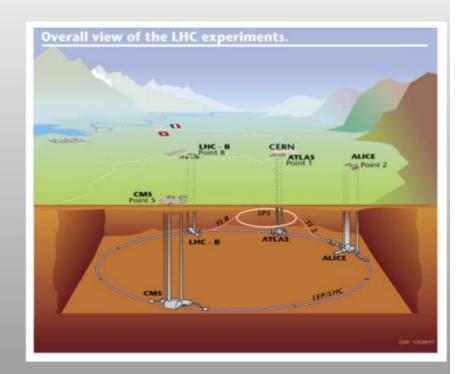


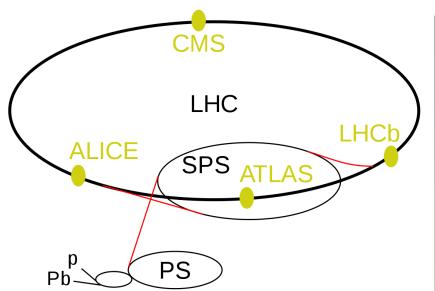
- CERN the world's largest particle physics laboratory
- Large Hadron collider (LHC):

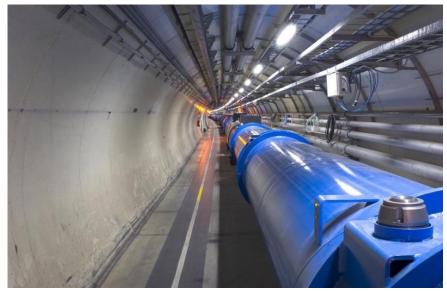
 - pp-kollisjoner ved CM14 TeV
 - protoner vil kollidere 40 millioner ganger per s
 - ▶ Én protonpakke består av 10¹¹ protoner
- Det er fire store eksperimenter på LHC; ALICE, LHCb, CMS and ATLAS.

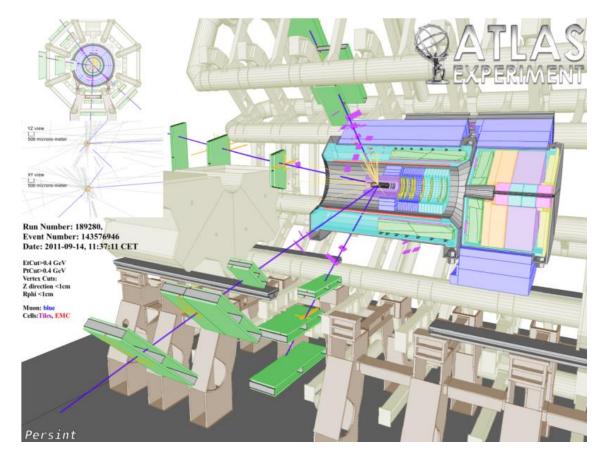


- CERN the world's largest particle physics laboratory
- Large Hadron collider (LHC):
 - ≥ 27 km lang akseleratorbane
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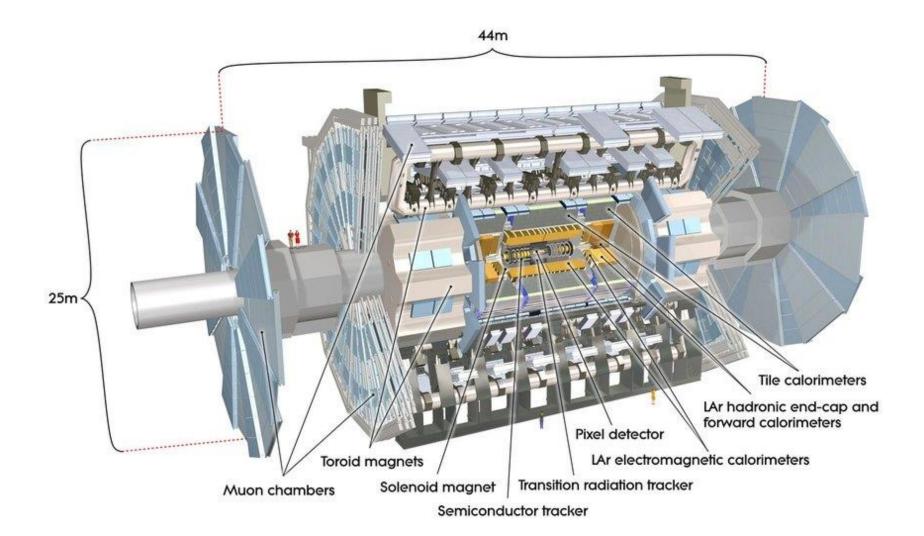




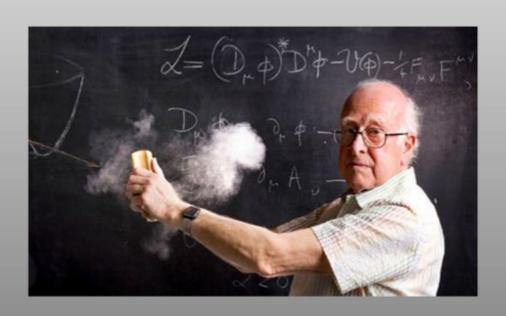


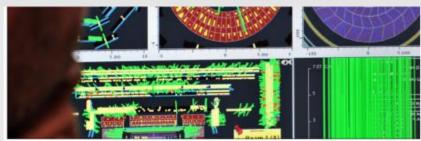
The ATLAS experiment:
 one of the largest and most
 complex science experiments
 ever built.

- pp collisions -> recreate the conditions of the early universe (Big Bang)
- Using Machine Learning in analysing these data sets: Hope to uncover "hidden insight" that may reveal the nature of Dark Matter



4. Juli 2012





Er en av fysikkens største gåter i ferd med å bli å løst?

CERN varsler store nyheter om mystisk partikkel. Men hva er egentlig Higgs-bosonet? Her er forklaringen.

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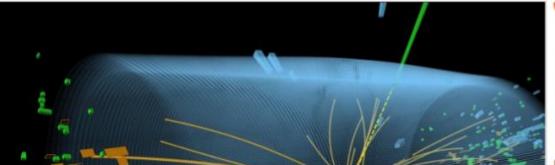
Discovery of the elusive 'God parti Large Hadron Collider tops the cha year's ten biggest scientific breakt

- Scientists had hunting for evidence of the Higgs boson for
- Physicists using found it using Cern's £2.6billion atom sma

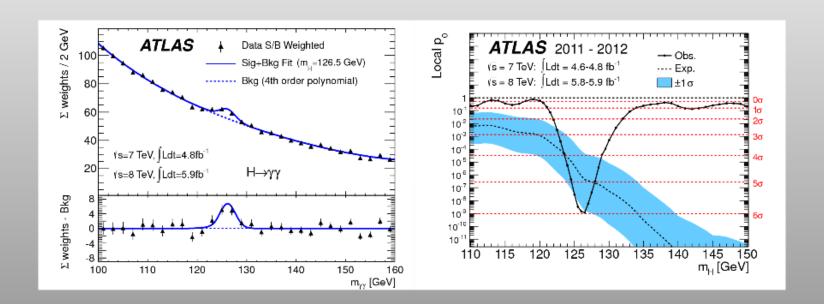


BJORN H. SAMSET

Derfor er «Gudspartikkelen» historisk



SENSATION!



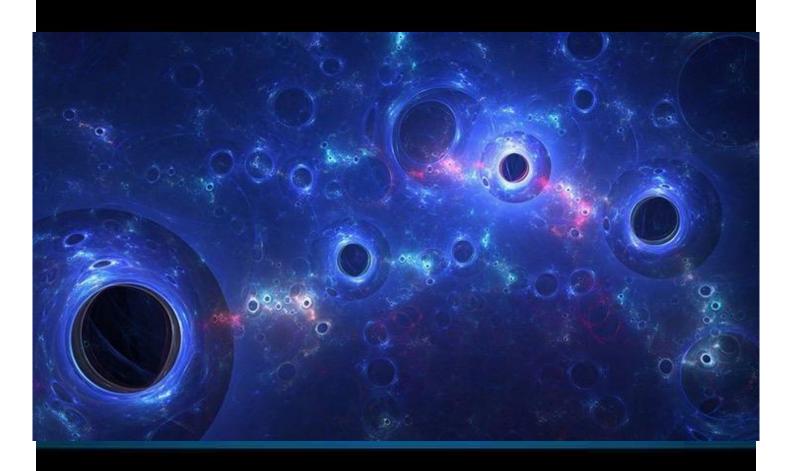


Image: SceinceAlert.com

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Disciplines represented: Physics, Engineering and Computing Seize your opportunity and apply (Deadline 28 January 2018) cern.ch/summies



https://home.cern/students-educators/summer-student-programme



@CERN

Er du en bachelor- eller masterstudent i anvendt fysikk, ingeniørfag eller databehandling? Ønsker du å tilbringe 4 til 12 måneder ved CERN i løpet av studiet?

Da er dette den perfekte muligheten for deg!

Som teknisk student kan du jobbe i en av verdens mest kjente organisasjoner, CERN. Søk nå om en plass på programmet for å ta del og bygge kunnskapen din i noen av de følgende disiplinene: anvendt fysikk, elektro- eller elektronikkteknikk, ingeniør eller sivilingeniør, IT, matematikk og robotikk, material- og overflatevitenskap eller maskinteknikk.







following institutes:
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You have reserved a slot in the videoconference with CERN for one of the