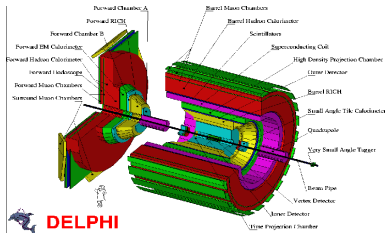
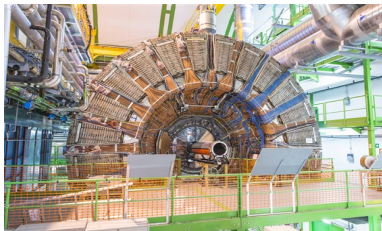


Anomalous Cherenkov rings in the DELPHI detector: A search for tachyons

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Outline

- 1 Introduction
- 2 Tachyon particles
- 3 DELPHI RICH
- 4 Event topologies and candidate selection
- 5 Analysis results
 - Correlation between RICH detectors
 - Tachyon mass parameters
 - Kinematic fit
- 6 Conclusion

- Introduce DELHPI and RICH, the authors, paper link

Tachyon particles

- Introduce theory of tachyons

- Demonstrate how RICH at DELPHI worked and how rings can be anomalous

Event topologies and candidate selection

- Go through each topology, explain their signatures and show plots of these signatures

Correlation between RICH detectors

- Show results of the correlation between the two RICH

- Show the calculated mass parameters

- Explain the kinematic fitting and show the results

- Conclude and mention the prospects of tachyon physics at ALICE