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Part 1

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Experimental setup: Collider, detector and

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algorithms

1.1 The Large Hadron Collider

The Large Hadron Collider (LHC) is a particle accelerator which was designed for proton-proton collisions as well as heavy ion collisions.

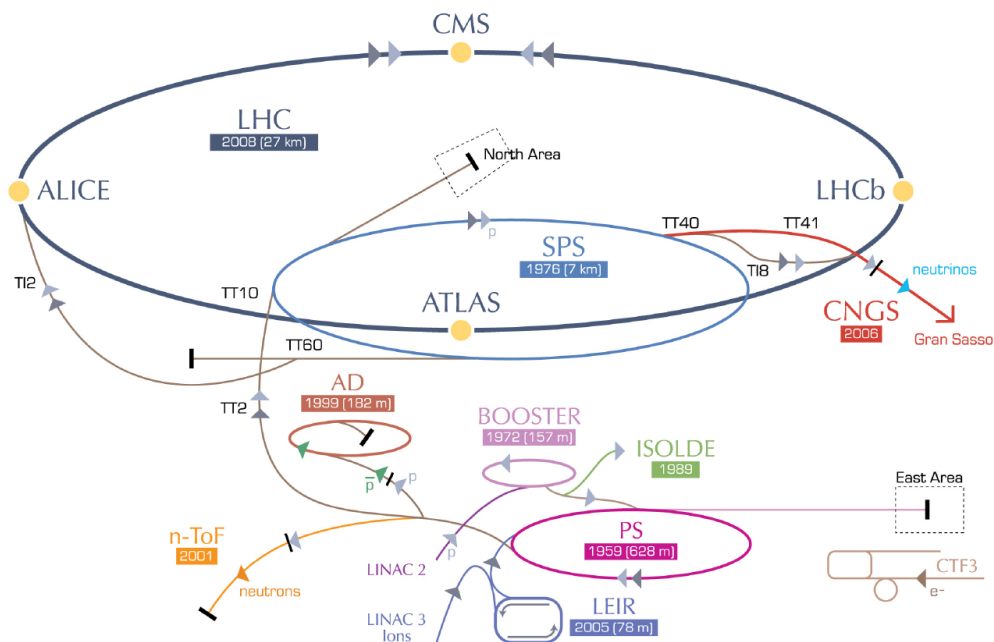


Figure 1.1.1

1.2 CMS

CMS is a experiment at the LHC

¹⁵ **1.3 Event reconstruction and particle identification**

¹⁶ Event reconstruction relies on very complicated algorithms bla

¹⁷ **1.4 Event simulation**

¹⁸ **Bibliography**