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# Overview of FCC-ee physics

As part of the Future Circular Collider study at CERN, the Future e+e- Circular Collider, FCC-ee, (formerly called TLEP) is a new generation collider, able to fit in a 80 to 100km tunnel, and able to deliver high luminosity in up to four interaction points from at least the Z peak to above the top pair threshold. The luminosity at the Z pole, W pair and top threshold are over 2.5, 1.2 10^35 and 1.8 10^34/cm2/s in each of four interaction points, respectively allowing to contemplate statistics of over 10^12 Z decays 10^8 W pairs and 10^6 top quark pairs. This leads to several independent ways of extracting the strong coupling constant ⊠S with a precision of the order of 0.0001, with different theoretical and experimental assumptions and model dependencies.

## Summary

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