Round table discussion on Large infrastructure HEP projects after the LHC

M. Koratzinos
Four very interesting projects

CM Energy
Luminosity
FCC
ILC
CLIC
These projects will start well into the ‘30ies

• ...by which time we will have:
  • Autonomous vehicles
  • Colonization of Mars
Competition is good

Design improvements: Luminosity (in units of $10^{34} \text{ cm}^{-2}\text{s}^{-1}$)

FCC-ee $2 \times 6 \rightarrow 2 \times 8.5 \rightarrow 4 \times 7.4$

ILC $1 \times 0.85 \rightarrow 1 \times 1.35 \rightarrow 1 \times 2.7 \rightarrow 1 \times 5.4$

In a space of a few years:
factor 2.5 for FCC, factor 6.4 for the ILC
Cheaper to build a facility in Asia and operate it in Europe...
Green field vs new lab

John Travolta, actor, born 1954

Baby, born now
Linear vs circular
A tale of two cities

C. Dickens, 1859

• It was the best of times,
• it was the age of wisdom,
• it was the epoch of belief,
• it was the season of Light,
• it was the spring of hope,

• It was the worst of times,
• it was the age of foolishness,
• it was the epoch of incredulity,
• it was the season of Darkness,
• it was the winter of despair...

C. Dickens, 1859