



## Outline

## Basic facts

## Education

## HEP Finland

## LHC computing

## Conclusions

## National mandate to coordinate all CERN activities

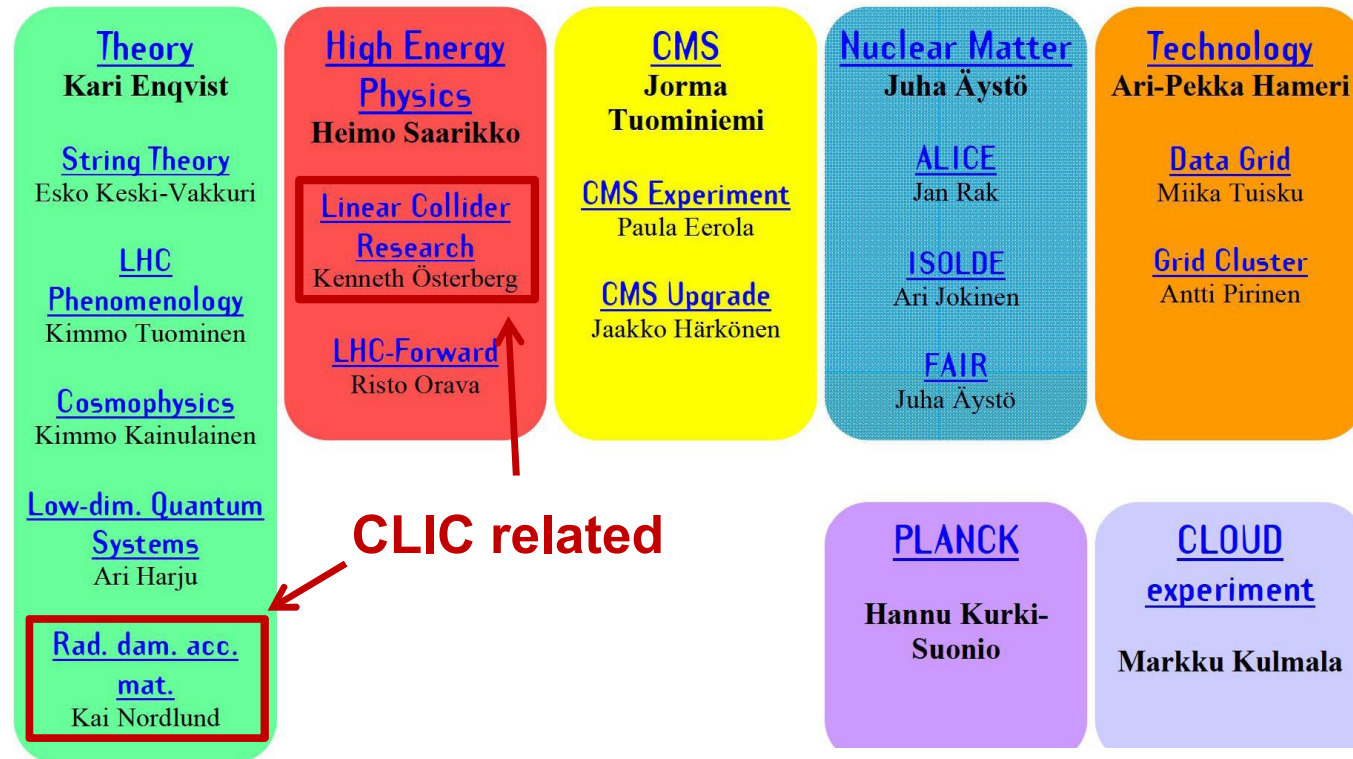
- research activity covers a large range of subjects in theoretical physics and experimental subatomic physics
- carry out and facilitate research in basic and applied physics as well as in physics research and technology development at international accelerator laboratories
- operated by 5 Universities (Universities of Helsinki and Jyväskylä, the Aalto University and Tampere and Lappeenranta Universities of Technology)
- budget: 4 M€ (MoE+universities) + 1 M€ (external)
- personnel including students: ~ 100
- coordinates also Finnish FAIR and Fermilab activities

[www.hip.fi](http://www.hip.fi)



- Outline
- Basic facts
- Education
- HEP Finland
- LHC computing
- Conclusions

## 5 research programs



- Technology program: GRID & technology transfer
- Industrial activators that promotes technological and commercial CERN–Finland co-operation



Outline

Basic facts

Education

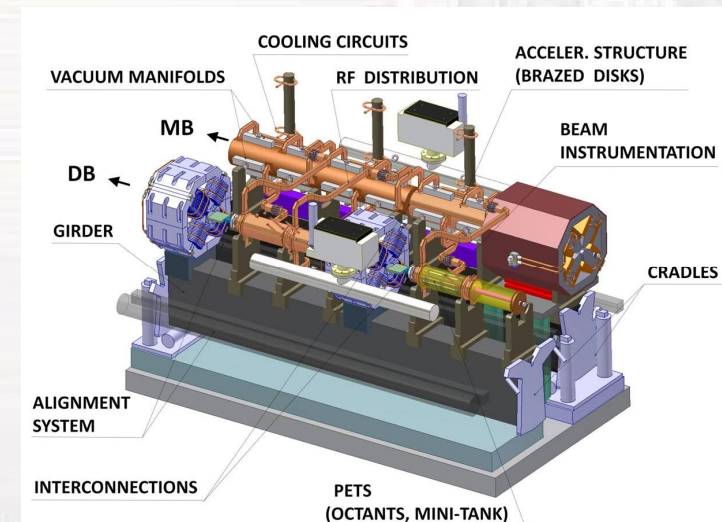
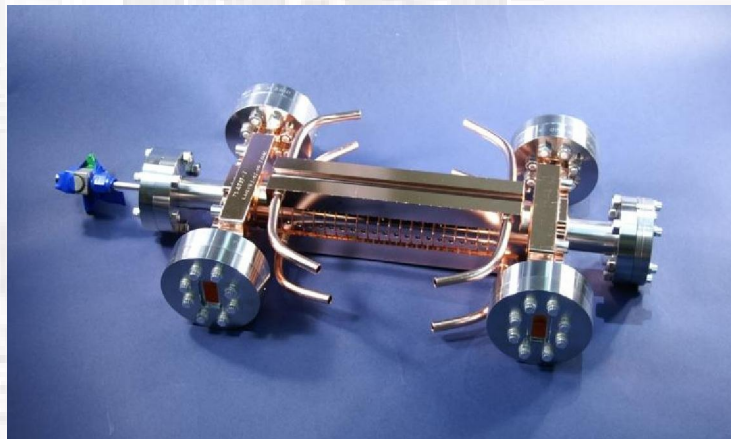
HEP Finland

LHC computing

Conclusions

## CLIC R&D @ HIP

- R&D on CLIC RF structures (machining & assembly) and CLIC module (thermo-mechanical behaviour)



- Industrialisation and cost study for mass production of the CLIC RF structures (*with VTT and Finnish industry*)
- Theoretical (*Prof. K. Nordlund*) as well as experimental investigations of RF breakdown in CLIC RF structures