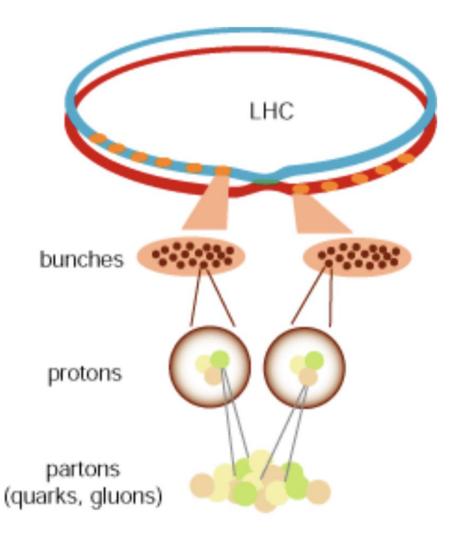
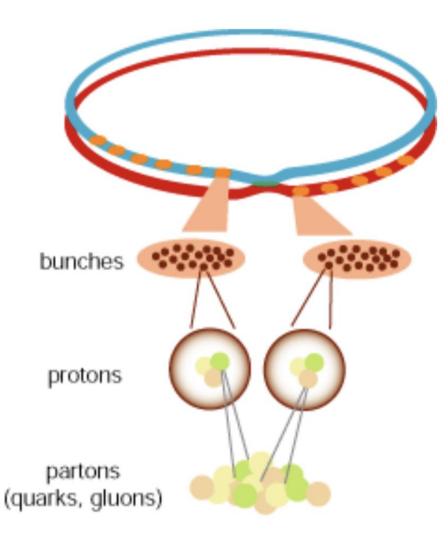


Closing comments

X. Buffat, T. Pieloni, L. Rivkin



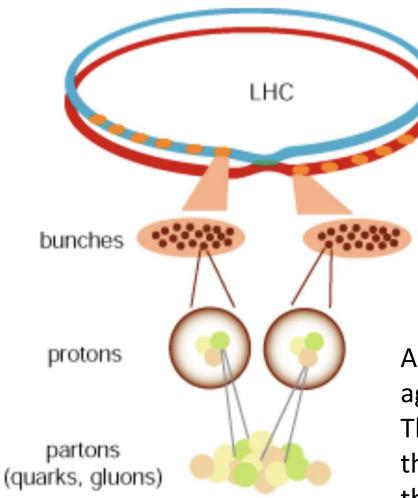






Man kind can shape, build and create beautiful things! Not natural but beautiful...with dedication, motivation and hard work! With a long, wise prospective!

Lavaux – Circular colliders (HERA,LHC, CEPC, FCC, EIC,....)

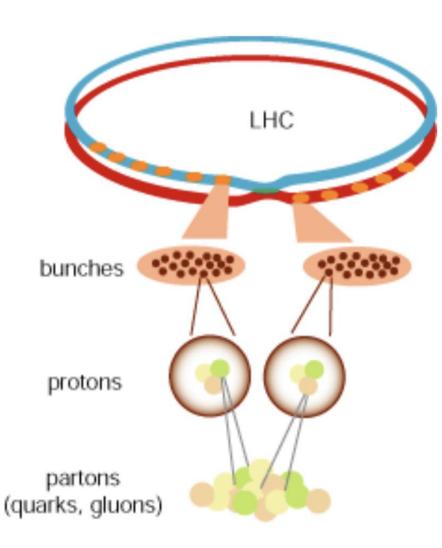


Our goals are beam quality and high luminosity to study rare physics events

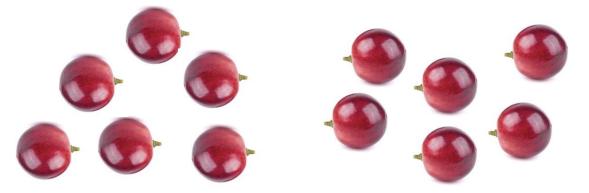
We squeeze particles in the smallest dimensions to To increase the chances of rare phenomena.



As the wine makers grow grapes and preserve them over the year against any climate or animal that might perturb the grapes. They grow in very small regions to give a peculiar final flavour to the grapes. But they also selectively keep the best grapes to push the final quality.



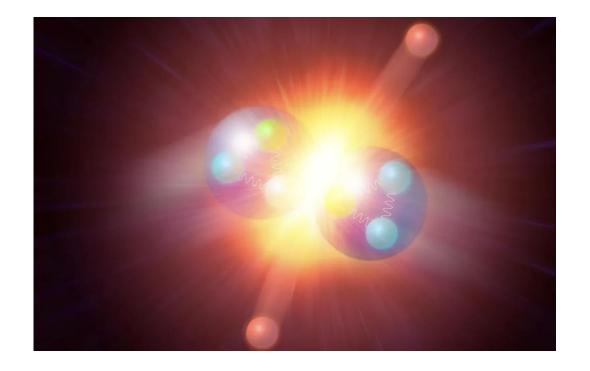
Smashing particles is not so dfferent from smashing grapes



When beams are ready we smash protons to see inside their components and take out the essence of physics processes!

As wine makers smash grapes to extract the juice of the fruits , their essence!

We contribute to create rare events



Artist's illustration of the Higgs boson being produced by two colliding protons. (Image credit: MARK GARLICK/SCIENCE PHOTO LIBRARY via Getty Images)

Elettricity cost: 200Euro/Higgs

They create wine



Domaine de la Romanee-Conti Grand Cru 1945 - \$558,000

Pics of the workshop













Dinner Vaudoise











Lavaux experience













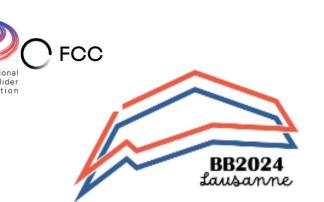




BB24 workshop

57 registrants : 50 in precence 7 on zoom

Motivations



• Share progress in the field: 49 high level contributions

Open and healthy discussions \rightarrow collaboration above borders!

- Identify challenges: strong-strong limitations, simulations vs measurements, several circular colliders on the horizon
- Build Vision: models, benchamrk understanding well the present to extrappolate → how can we simulate the future machines?

EDEI

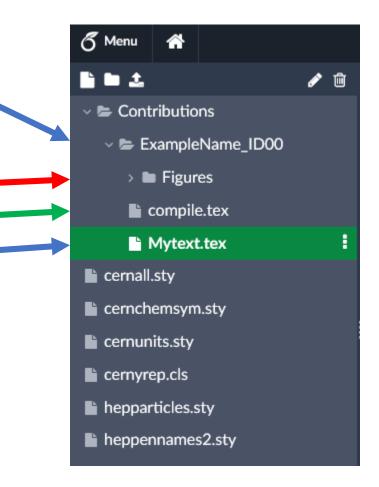
- **Training next generation** accelerator experts: very young attendency 50/50 ratio.
- **Documenting** the state of the art

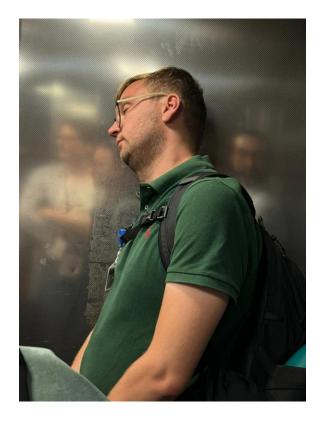
Proceedings

will be published as CERN Yellow report Deadline 15th Nov 2024

- Make a copy of the <u>overleaf example</u>
- Change directory name to Surname_abstractID
 - Abstract ID found <u>here</u>
 - E.g. vanRiesen-Haupt_ID22
- Upload figures in Figures repository
- <u>Do not</u> touch compile.tex
- Place text in Mytext.tex
- Make unique labels and references with **abstract ID**:
 - IDXX_eq:<equation name>
 - IDXX_fig:<figure name>
 - IDXX_bib:<source nam>
- Use the bibliography and bibitem for bibliography

Werner Herr and Leon van Riesen-Haut bb24@epfl.ch





Thank you for your effort and have a safe trip back !