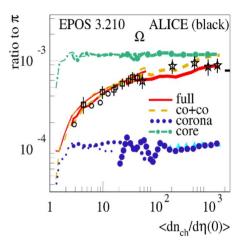
When heavy ions meet cosmic rays: potential impact of QGP formation on the muon puzzle

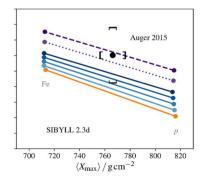


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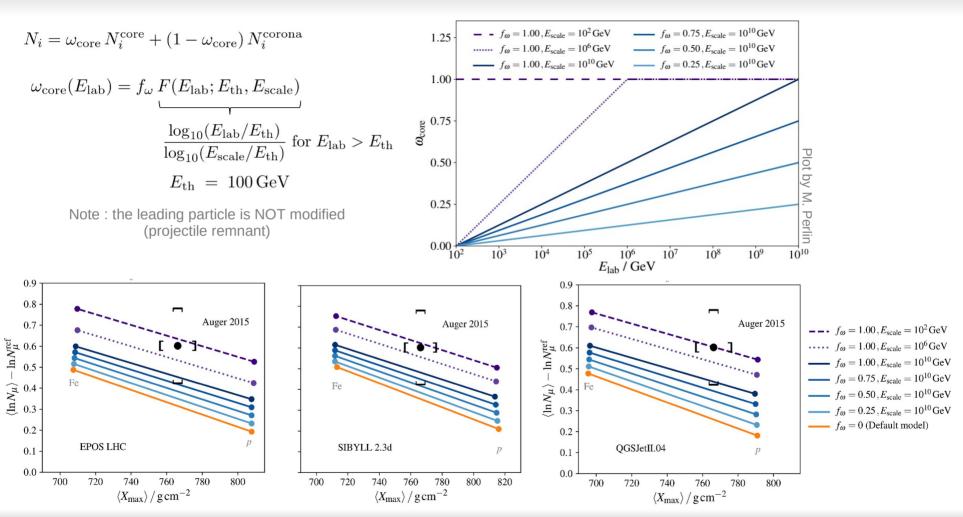
- What is this contribution about ?
 - A possible explanation for the muon deficit in air shower simulations.
- Why is it relevant / interesting ?
 - The solution is NOT based on unknown physics at very high energy but on a growing impact of a different hadronization as observed in LHC data.
- What have we done?
 - A simplified core-corona approach has been implemented in CONEX to apply the model to any hadronic interaction model.
- What is the result?

New input from LHC crucial to reproduce EAS data consistently: collective effects in light system may bring a solution for the muon puzzle.





Core-Corona appoach and EAS with CONEX



Results for z-scale

