



COMPASS++/AMBER

Theory Initiative

Perceiving the Emergence of Hadron Mass through AMBER@CERN

Kick-off vidyo Meeting on 11 December 2019

Agenda

- 1. Introduction**
- 2. COMPASS++/AMBER – a new experiment at the CERN M2 beamline**
- 3. AMBER Theory Initiative: Emergence of Hadron Mass**
- 4. Further short contributions**
- 5. Installation of the TH institute at CERN**
- 6. Conclusions**



some introductory remarks

Background of today's meeting

- Long-term plan for a follow-up QCD experiment to COMPASS since ~2018
- Brainstorming on the experimental side led to a quite diverse list of proposed reactions to study
- What are the **most decisive experiments** to realize?
- Define and select **observables accessible** to AMBER

Craig Roberts: “You are, in essence, studying the **Emergence of Hadron Mass**” – really?

- Today's discussion relies on **your interest** and good will
- Time is precious and we will aim at a **fair share**
- No “final answers” expected – best we have **promising ideas** sketched, that are worth to be worked out in more detail, and enter into a document useful for the realisation of AMBER, possibly within a CERN TH institute