

# *Theory Challenges in the Precision Era of the Large Hadron Collider*

**S.Alioli, A.Kardos, L.Magnea, S.Moch, D.Wackerroth**

*The Galileo Galilei Institute*

# Overall plan

- week 1 (28.08-01.09) Kick-Off Conference
- **week 2 (04.09-08.09) Precision QCD results**
- week 3 (11.09- 15.09) Scattering amplitudes and new algorithms
- week 4 (18.09-23.09) Resummation, PDFs and MC developments
- week 5 (25.09-30.09) Training week for PhD students
- week 6 (02.10-06.10) Electroweak theory
- week 7 (09.10.-13.10) SMEFT and New Physics

# *Precision QCD results*

- ...

# Weekly plan

- every day (Mon-Fri)
  - 10:30am coffee (meet at the machine, courtyard)  
→ use the colored key for free coffee
  - 01:00pm lunch
  - 04:00pm coffee (meet at the machine, courtyard)
- this week's talks at 11:30am (30 min talk + 15 min discussion)
  - Tuesday **G.Vita** *The singular structure of collider observables at N<sup>3</sup>LO and beyond*
  - Wednesday **K.Melnikov** *Power corrections to collider processes*
  - Thursday **M.Beneke** *Hard scattering beyond the leading power*
- any other suggestion for activities → talk to the organizers

# *Your duties*

- Discuss, ask questions, collaborate, . . .
- Have coffee, lunch, . . .
- Acknowledgements in research work
  - *[XXX] is grateful to the Galileo Galilei Institute where the main part of this work was done for warm hospitality.*
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