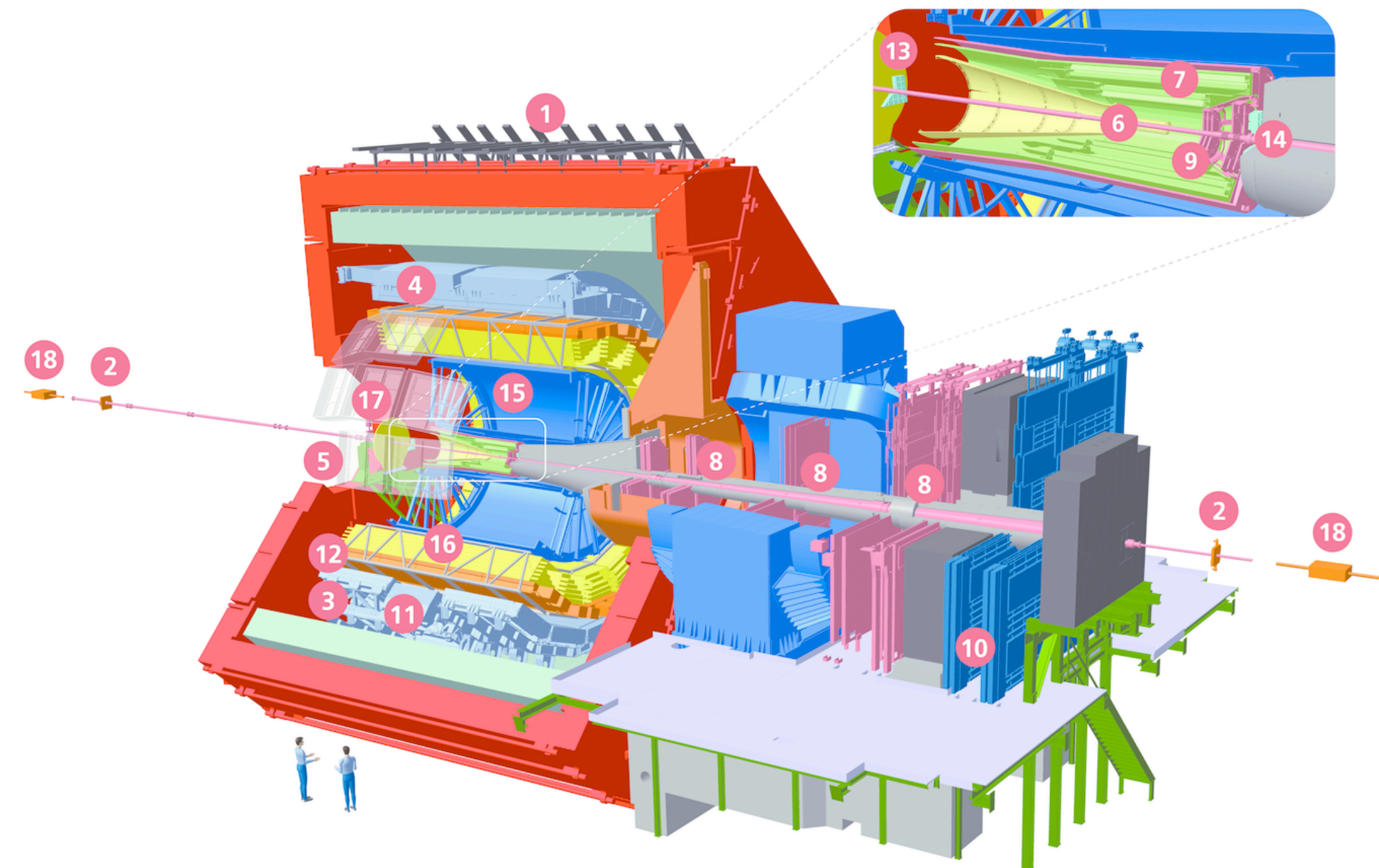
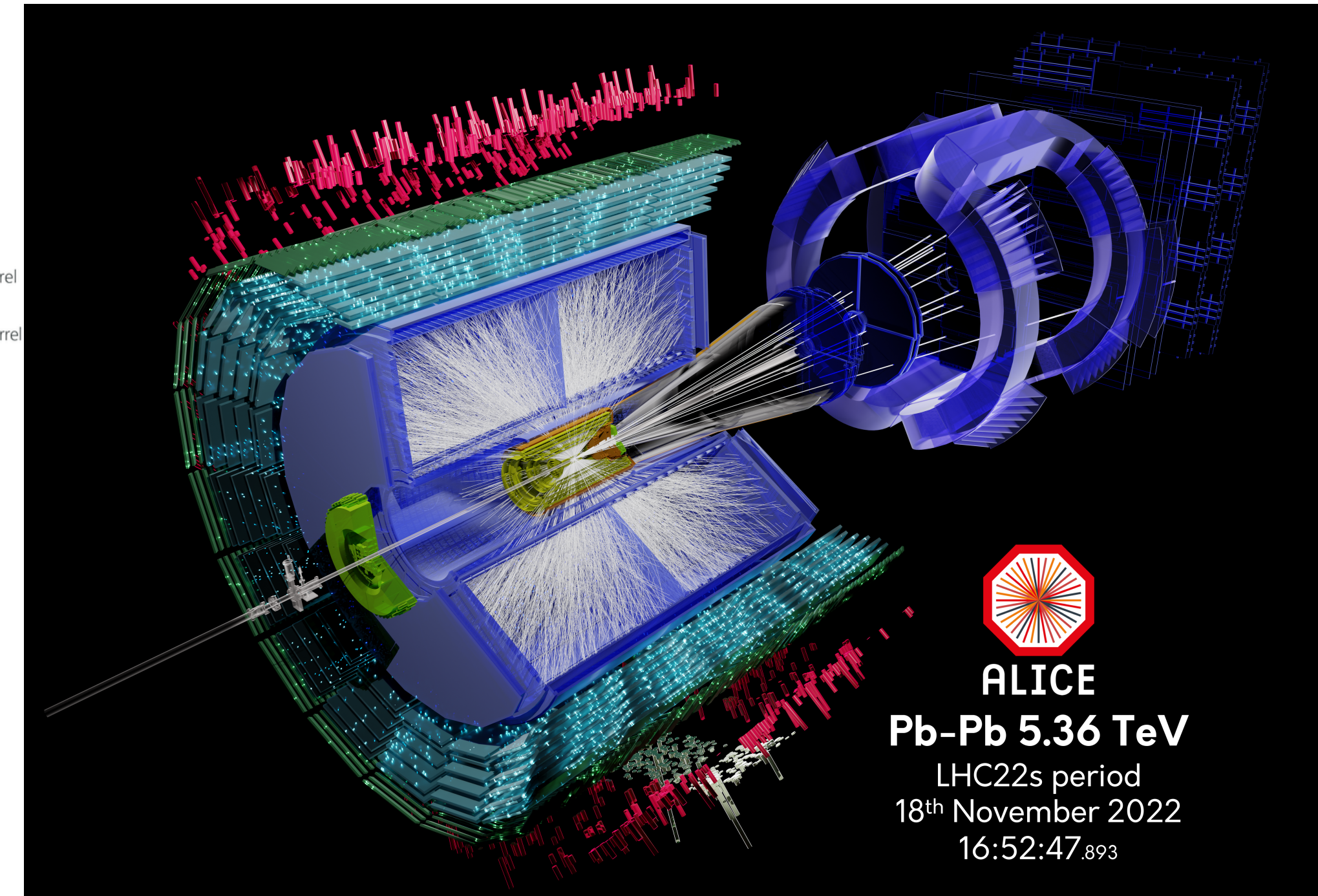


TOPICAL LECTURES - ALICE



- 1 ACORDE | ALICE Cosmic Rays Detector
- 2 AD | ALICE Diffractive Detector
- 3 DCal | Di-jet Calorimeter
- 4 EMCal | Electromagnetic Calorimeter
- 5 HMPID | High Momentum Particle Identification Detector
- 6 ITS-IB | Inner Tracking System - Inner Barrel
- 7 ITS-OB | Inner Tracking System - Outer Barrel
- 8 MCH | Muon Tracking Chambers
- 9 MFT | Muon Forward Tracker
- 10 MID | Muon Identifier
- 11 PHOS / CPV | Photon Spectrometer
- 12 TOF | Time Of Flight
- 13 T0+A | Tzero + A
- 14 T0+C | Tzero + C
- 15 TPC | Time Projection Chamber
- 16 TRD | Transition Radiation Detector
- 17 V0+ | Vzero + Detector
- 18 ZDC | Zero Degree Calorimeter



Panos Christakoglou
Nikhef

ALICE IN A NUTSHELL

Thermodynamics description of the medium,
using macroscopic quantities

- EoS, V , T , ε , η/s , ζ/s ,...

Understand the microscopic details of the
matter formed

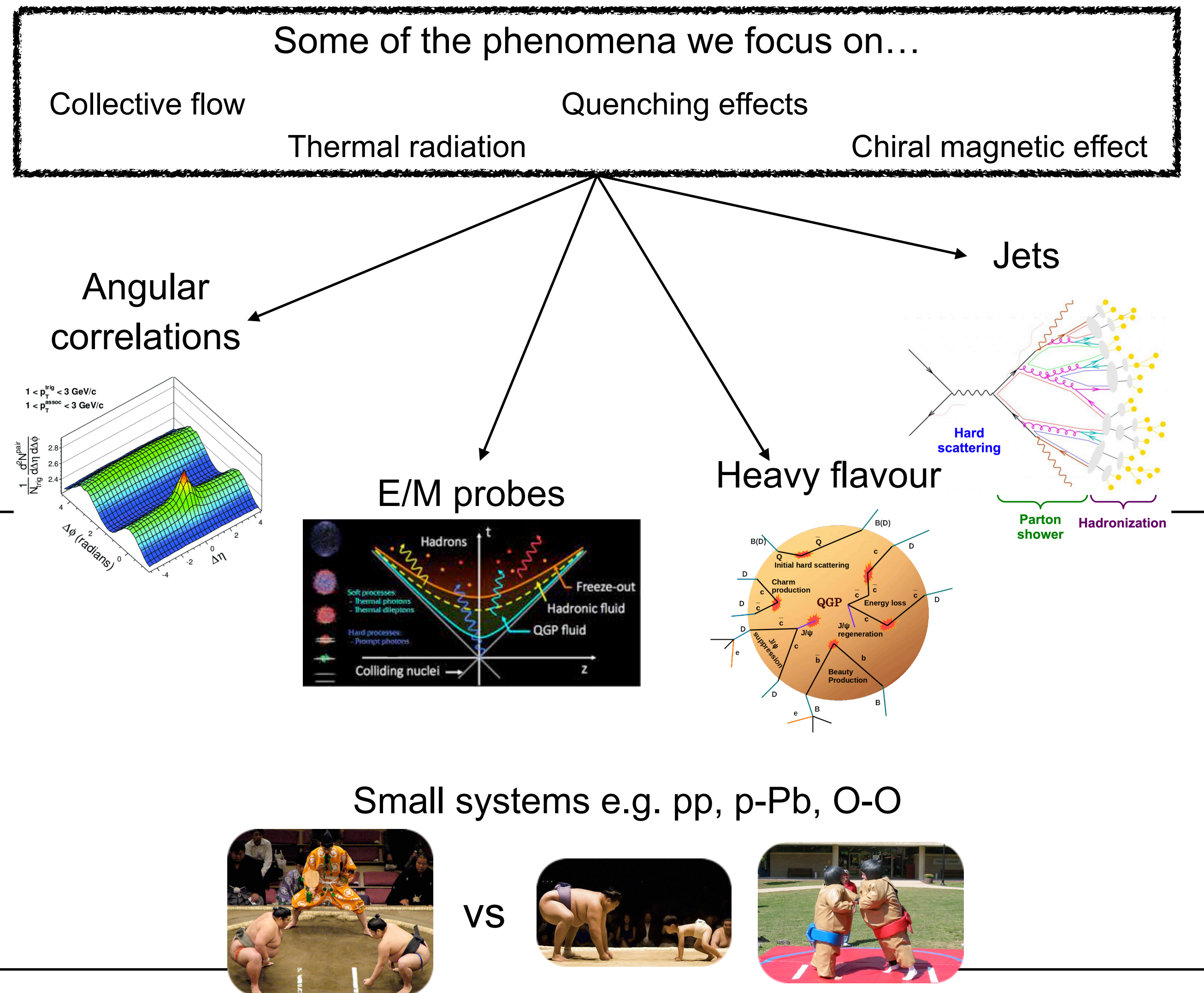
- Can we resolve quarks and gluons as the
degrees of freedom?

Limit of QGP formation?

- Can “QGP signals” be switched off vs
multiplicity or system size?

(non-QGP focused) QCD studies

- Parity violation in strong interactions
- ...



PROGRAM - DAY 3

WEDNESDAY, 7 JUNE			
09:30 → 09:35	Introduction	Speaker: Panos Christakoglou	⌚ 5m
09:35 → 10:25	The theory of heavy ion collisions	Speaker: Dr Wilke van der Schee (CERN - UU)	⌚ 50m
10:25 → 10:35	Coffee break - discussion		⌚ 10m
10:35 → 11:25	Macroscopic description of the hot and dense QCD matter	Speaker: Dr Ante Bilandzic (TU Munich)	⌚ 50m
11:25 → 11:35	Coffee break - discussion		⌚ 10m
11:35 → 12:25	The microscopic structure of the hot and dense QCD matter	Speaker: Dr Yi Chen (MIT)	⌚ 50m
12:25 → 14:00	Lunch break		⌚ 1h 35m
14:00 → 14:30	Open Q&A: living and doing physics in ATLAS		⌚ 30m
14:30 → 15:00	Open Q&A: living and doing physics in LHCb		⌚ 30m
15:00 → 15:30	Open Q&A: living and doing physics in ALICE		⌚ 30m
15:30 → 15:50	Coffee break - discussion		⌚ 20m
15:50 → 16:50	Can we identify connections between the physics probed by heavy ion collisions and gravitational waves?		⌚ 1h
16:50 → 18:00	Borrel		⌚ 1h 10m

Don't leave early!!!

LIFE/DOING PHYSICS IN LARGE COLLABORATIONS

Duties/responsibilities in ALICE/ATLAS/LHCb

- Service tasks...

Junior opportunities and organisation

- Visibility...

Physics organisation

How do you get to publish a paper in ALICE/ATLAS/LHCb

- What does it take, what are the steps...

Collaboration or competition with other analysers?

Are there things you would like to see changed?

CONNECTION SESSION

Connections in detectors

- Resolutions, noise,...

Connections in physics

- EoS, transport properties, phase diagram,...

Connection in analysis techniques

- Bkg reduction, ML, bayesian analysis, Fourier series...

MONDAY: ALICE & GW CONNECTIONS

Connections between ALICE & GW									
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