

FASTSUM Collaboration

INFN, Florence

University of Liverpool

National University of Ireland, Maynooth

Sejong University, Korea

University of Southern Denmark

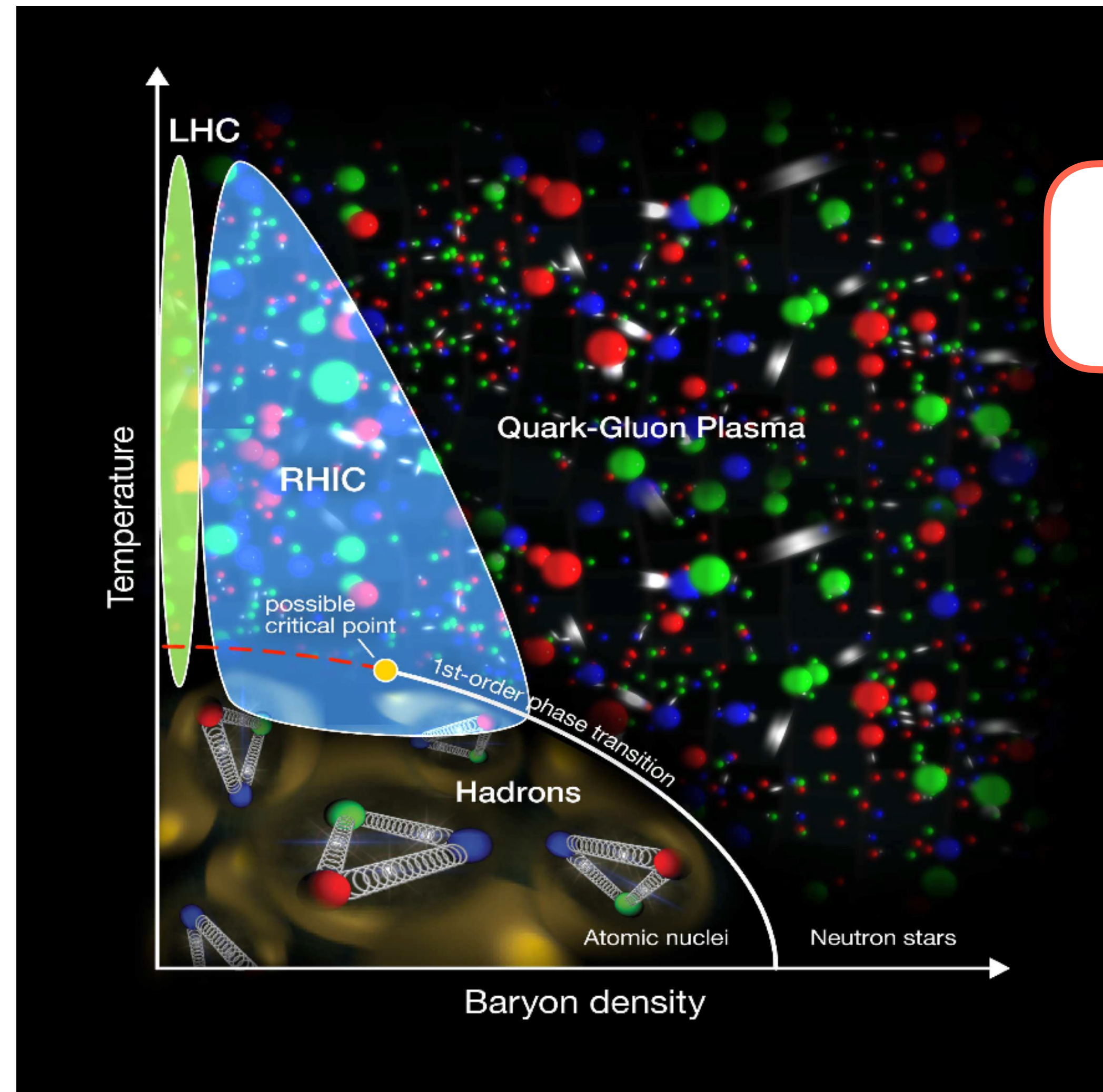
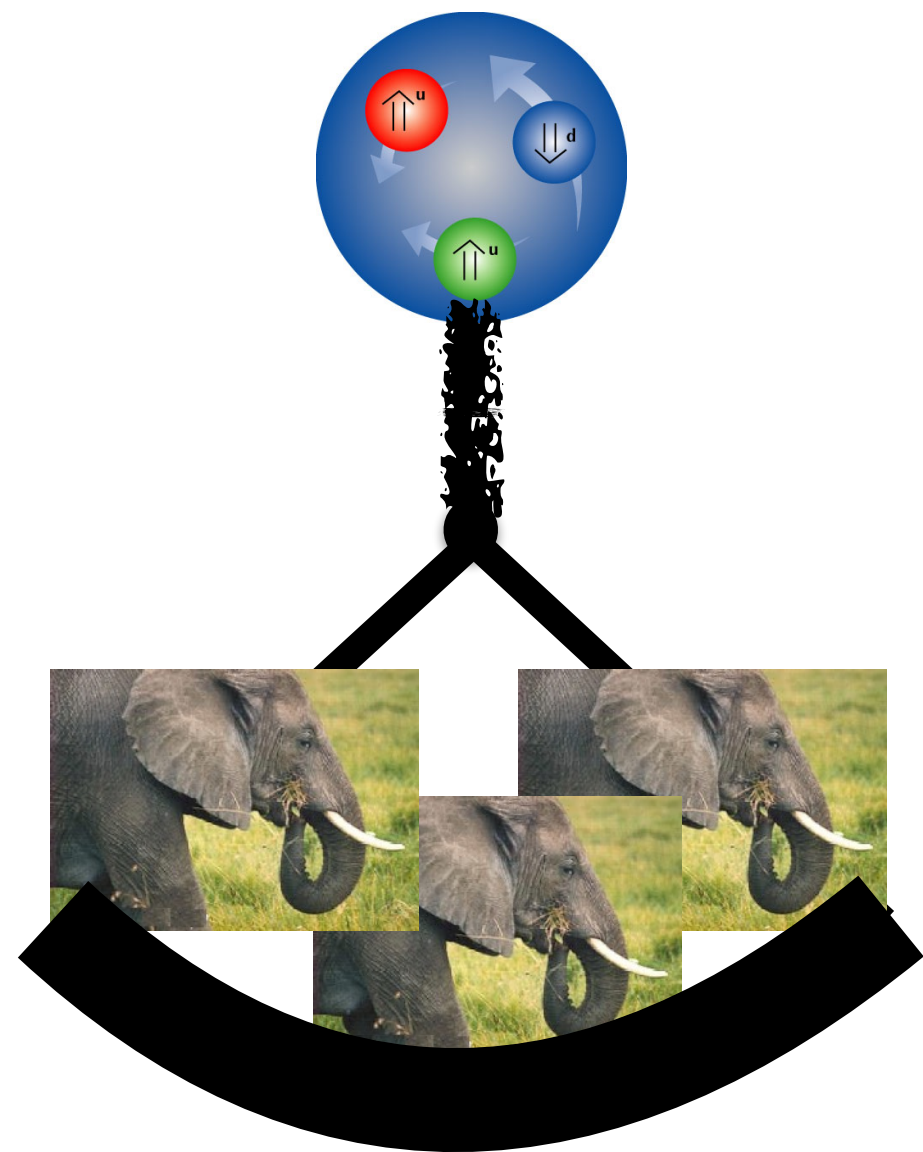
Swansea University

Trinity College, Dublin

Chris Allton

Swansea University

Phase diagram of quarks



quarks

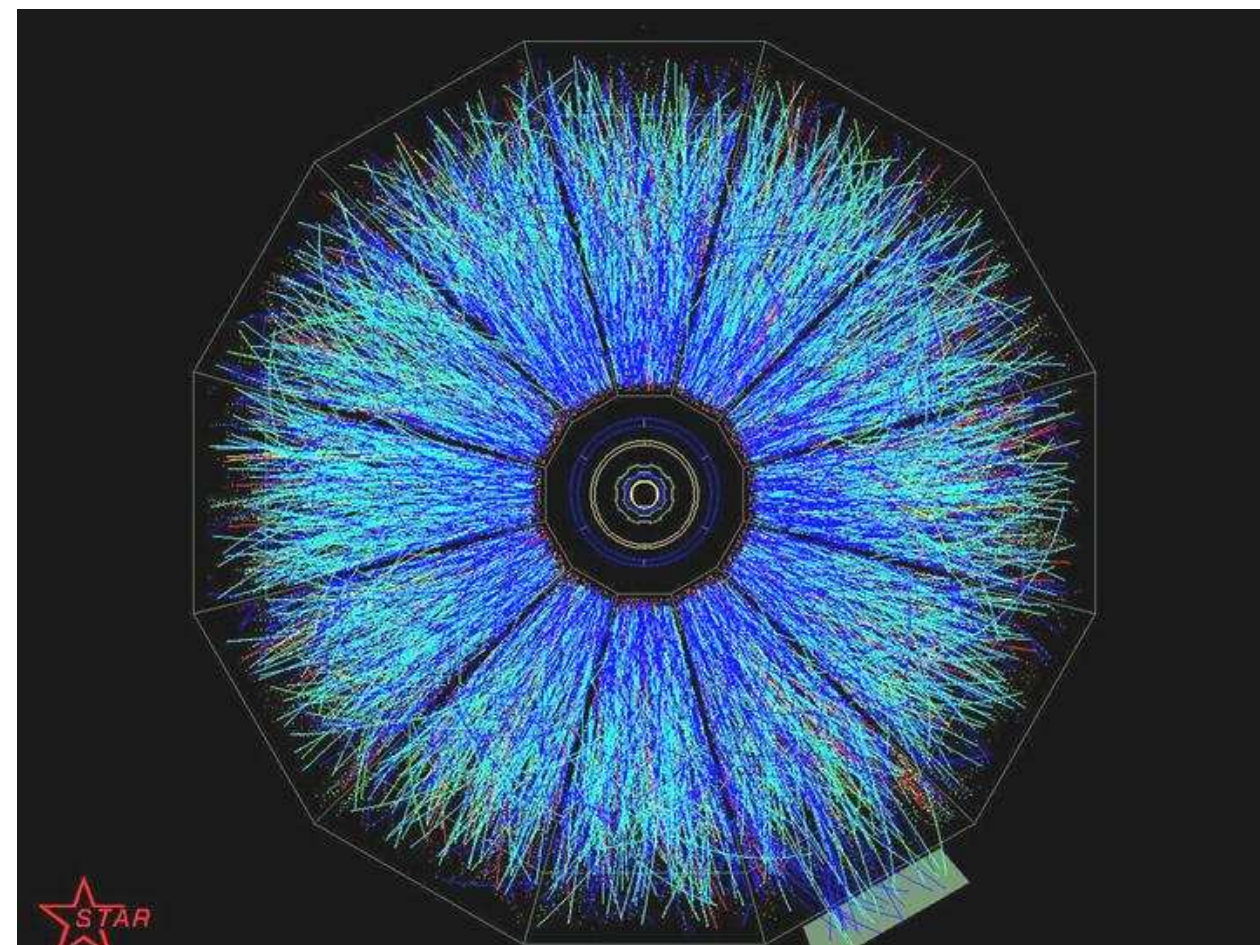
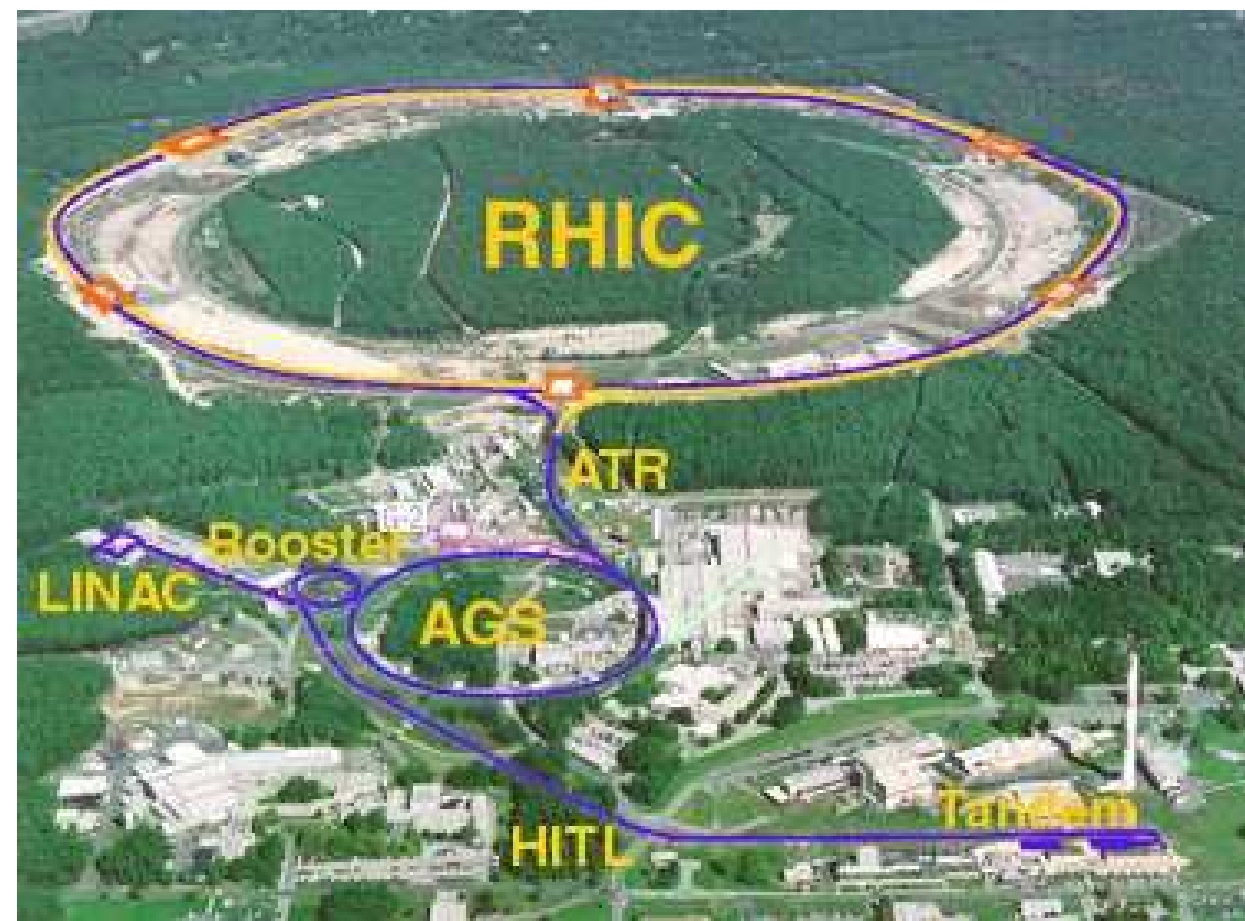
gluons

$$\bar{\psi}(x)(\not{D} + m)\psi(x) + \frac{1}{4}F_{\mu\nu}F_{\mu\nu}$$

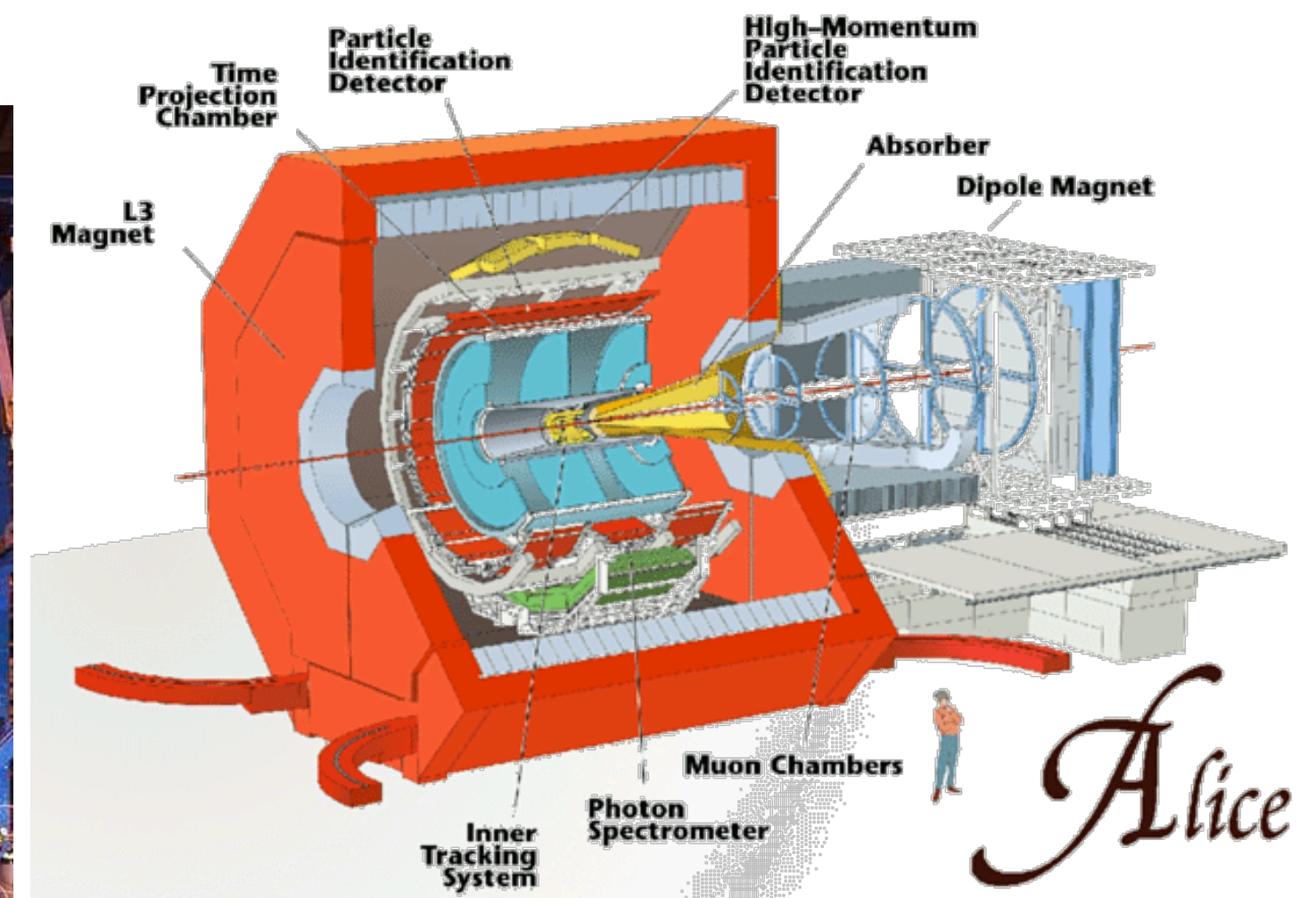
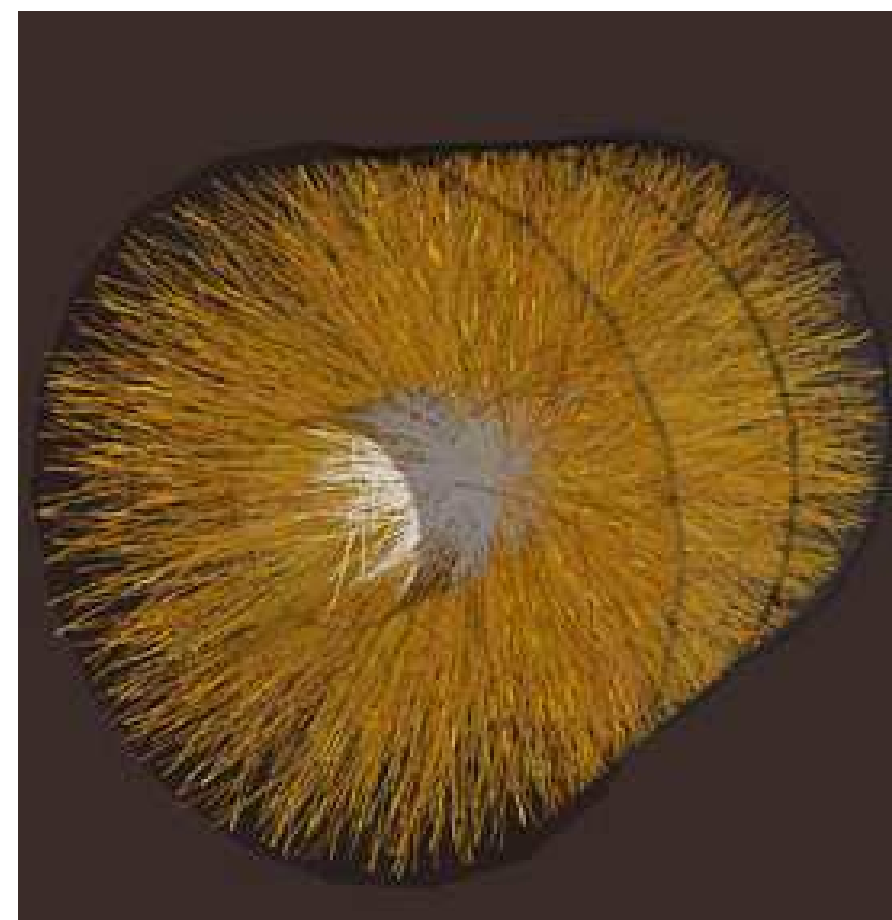
Experiments at $T \neq 0$

Heavy-Ion Collisions

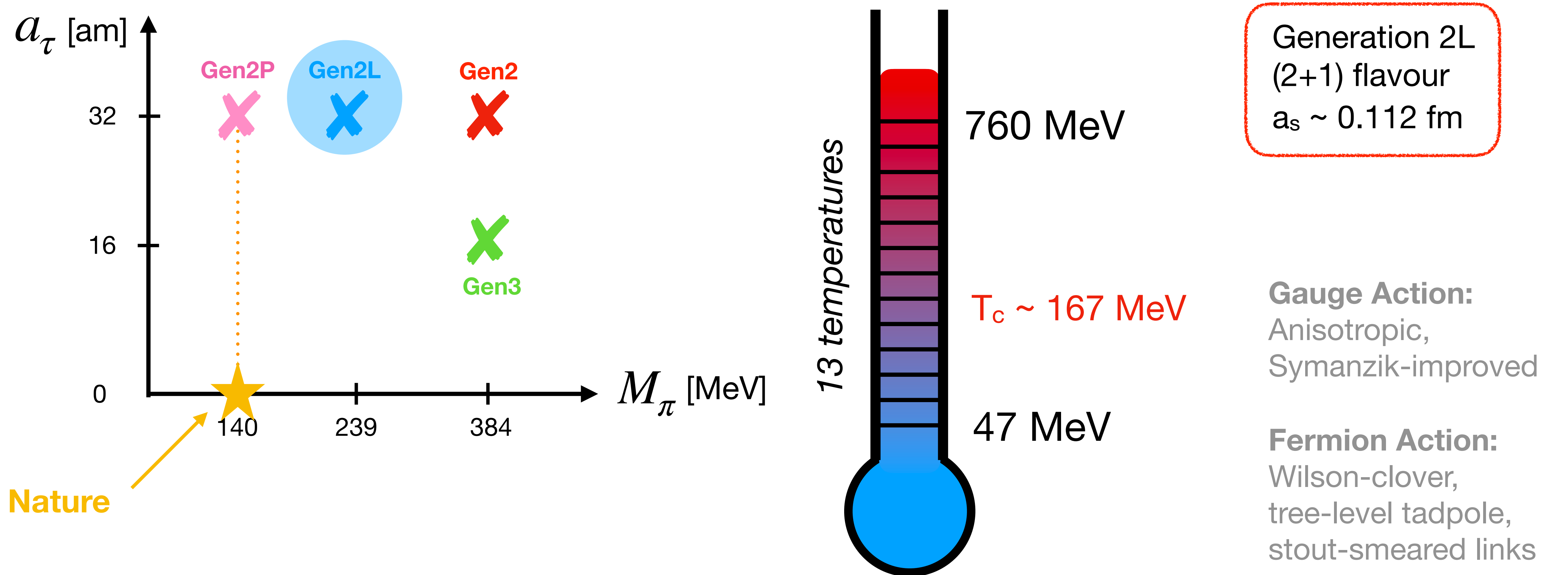
RHIC @ BNL



ALICE @ LHC



FASTSUM Approach: Lattice Parameters



Action

- Anisotropic
- Stout Smearing

Code Summary

- Chroma
 - GPU
- OpenQCD
 - CPU, potentially moving to GPU