

Feasibility Study of K₁ Measurement in pp collisions with ALICE **SU-JEONG J1** ON BEHALF OF THE ALICE COLLABORATION 1) PUSAN NATIONAL UNIVERSITY



CHIRAL SYMMETRY RESTORATION^[1]



Abundances of hadrons are determined.

QCD chiral crossover is about 156.5 ± 1.5 MeV (around critical temperature of QGP)^[2]

Chiral symmetry can be **restored** in high temperature and density.

Then **chiral partners** will have much closer mass therefore equal number of particles according to thermal description will be produced.

2D INVARIANT MASS DISTRIBUTION







[1] Phys. Lett. B 819 (2021) 136388, [2] Phys. Lett. B 795 (2019) 15–21, [3] Phys. Rev. D 83, 032005 (2011)

SU-JEONG JI (su-jeong.ji@cern.ch) – SQM 2024 Poster Session