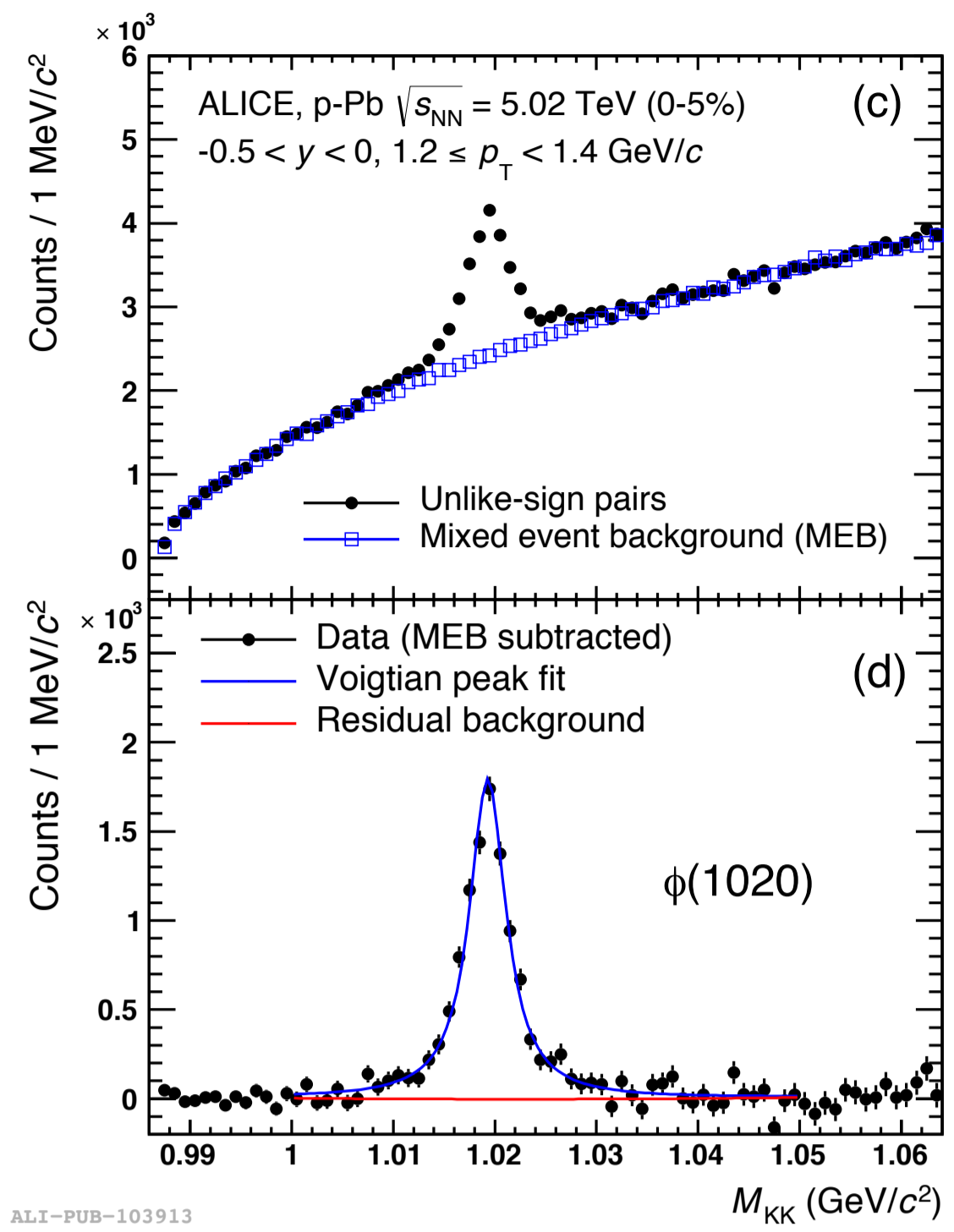


# LIGHT FLAVOR RESONANCE PRODUCTION IN MULTIPLE COLLISION SYSTEMS



BONG-HWI LIM ON BEHALF OF THE ALICE COLLABORATION



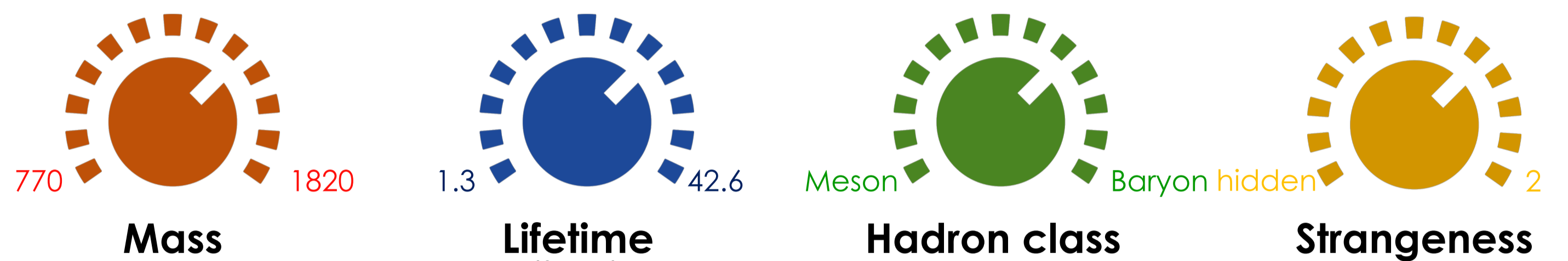
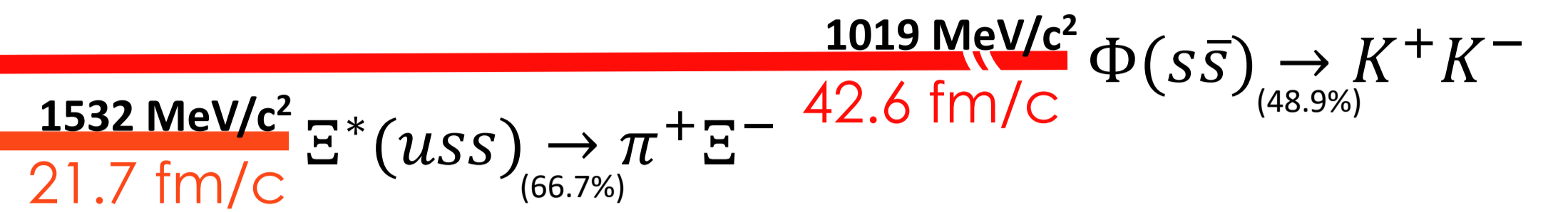
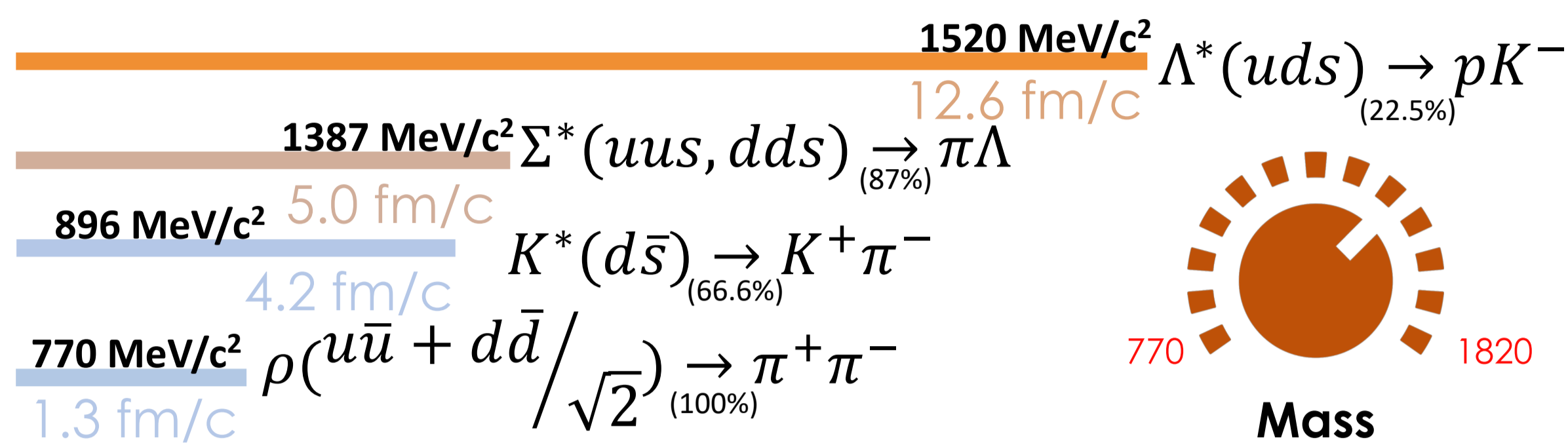
## WHY RESONANCES?

in Light Flavor(strangeness)

Short lifetimes; Similar to Hadronic phase

Excited States; Can compare results to the other particle with similar quark contents

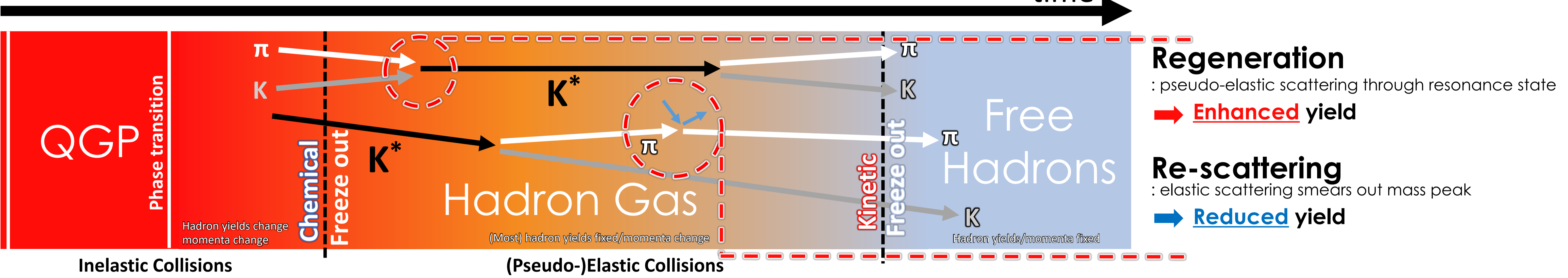
### Properties



$f_0(980)$  and  $\Xi^*(1820)$  in preparation

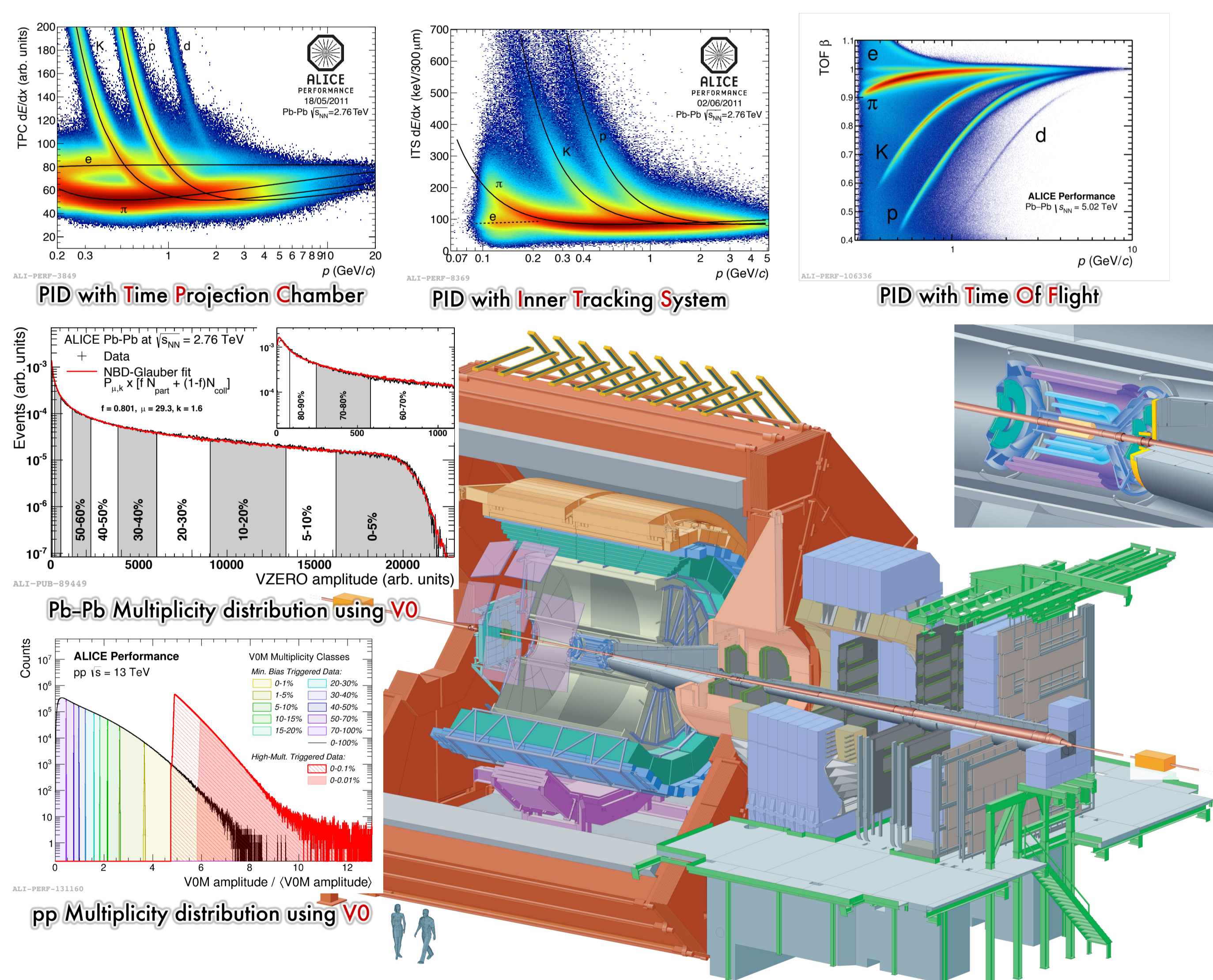
RESONANCES may have knobs that can be used to study the hadronic phase

## RESONANCES IN HADRONIC PHASE



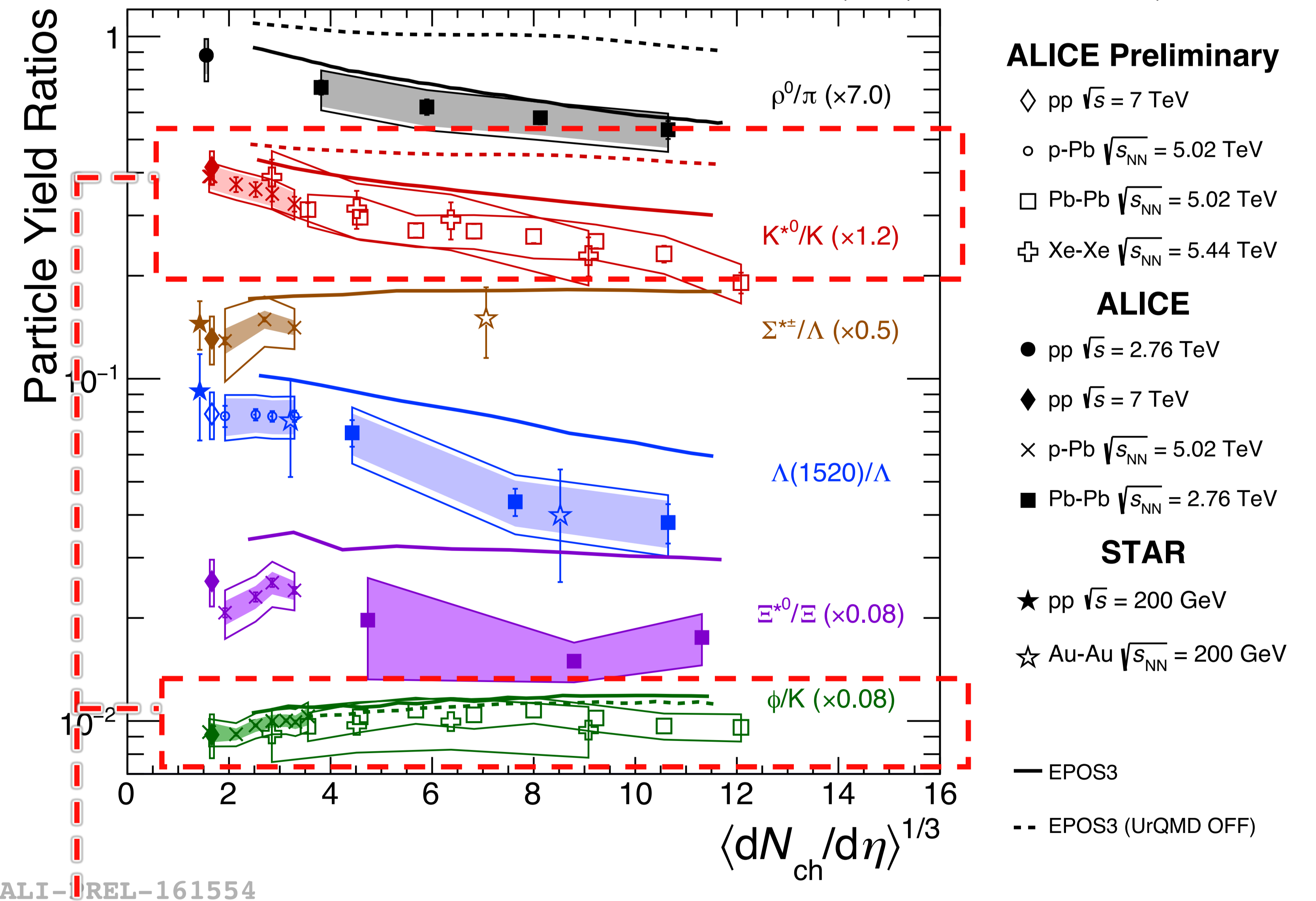
RESONANCES yields are influenced by Chemical freeze out temperature ( $T_{ch}$ ), Lifetime of Hadronic Phase, Lifetime of resonance itself, Scattering cross-section of decay products.

## ALICE DETECTOR



## RESONANCE YIELD COMPARED TO LONG-LIVED PARTICLES

Compare particles with similar quark contents



## STRANGENESS ENHANCEMENT

