

# Strangeness in Quark Matter 2019



Contribution ID: 19

Type: **Contributed talk**

## Strangeness flow in Au+Au collisions at 1.23 AGeV measured with HADES

*Thursday 13 June 2019 16:30 (20 minutes)*

We present the preliminary results on an anisotropic transverse flow of particles with strange content ( $K_s^0$  and  $K^+$ ) in Au+Au collisions at  $\sqrt{s_{NN}} = 2.42$  GeV measured with HADES. The strange particle flow in a heavy-ion collision is a good probe for nuclear equation-of-state. Kaon flow was seldom measured at such low centre-of-mass energy region due to sub-threshold production of strangeness. Thanks to the quantity of 2.6 billion events of the 40 % most central collisions this study is now possible. The obtained flow parameters (differential measurement of directed and elliptic flow) are compared with previously published world data as well as with flow of non-strange particles. The agreement of measurement with simulations using transport codes is also checked.

### Collaboration name

HADES

### Track

Strangeness and Light Flavour

**Primary author:** CHLAD, Lukáš (Nuclear Physics Institute of the CAS)

**Presenter:** CHLAD, Lukáš (Nuclear Physics Institute of the CAS)

**Session Classification:** Strangeness and Light Flavour