Contribution ID: **864** Type: **Experimental poster**

Study of resonance's properties in heavy-ion collisions using angular hadron-resonance correletions in ALICE experiment.

Tuesday 17 May 2022 19:00 (1 hour)

Hadronic resonances can act as useful probes to examine the hadronic phase in ultra-relativistic heavy-ion collisions. In addition, high p_T resonances could probe not only the hadronic phase but also the partonic phase if they are created very early in jet fragmentation. Hadron-resonance angular correlations could help to preferentially select high transverse momentum resonances coming from the jet or out of the jet region. In this analysis, the $K^{*0}(892)$ and $\phi(1020)$ production in and out of jets are studied by exploiting their angular correlation with respect to the highest transverse momentum particle, used as a proxy for the jet axis. A first look at the method using data from lead-lead collisions at $\sqrt{s_{\rm NN}}$= 5.02 TeV will be presented.

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