

# The 23rd International Conference on Few-Body Problems in Physics (FB23)



Contribution ID: 98

Type: **2.Parallel session talk**

## Dark sector search with hadrons at BESIII

*Tuesday, 24 September 2024 18:00 (20 minutes)*

The BESIII experiment has collected 10 billion  $J/\psi$  events, 2.6 billion  $\psi(3686)$  events, and about  $20 \text{ fb}^{-1}$   $\psi(3770)$  data. Various dark sectors produced in  $e^+e^-$  annihilation and hadron decay processes can be searched for at BESIII. In this talk, we report the search for invisible dark photon decay using initial state radiation, invisible muonic  $Z'$  boson decay, sigma invisible decay, and search for axion-like particles with a light scalar or vector particle in the decay of  $J/\psi$ .

**Presenter:** LIU, Liangchen (Nankai University)

**Session Classification:** Parallel 2: Hadrons and related high-energy physics

**Track Classification:** Hadrons and related high-energy physics