

/opt/indico/archive/2016/C8/40222322483

\_logo\_small.jpg

Contribution ID : 116

Type : **Poster**

## **First using of the particle identification system based on dense aerogel in data analysis of the $e^+e^-$ $\rightarrow K^+K^-$ process**

*Tuesday, 28 February 2017 17:00 (0:20)*

### **Content**

The threshold Čerenkov counter based on dense aerogel with refraction index  $n = 1.13$  is described. This counter is used for  $\pi/K$  separation at SND detector at VEPP-2000  $e^+e^-$  collider in the particle energy range up to 1 GeV. The results on separation efficiency for hadrons produced in  $e^+e^-$  annihilation are presented. New results on the  $e^+e^- \rightarrow K^+K^-$  process cross section has been obtained in the energy range  $1.05 \div 2.0$  GeV with using the Čerenkov counters. The cross section value was found to be consistent with previous measurements.

### **Summary**

**Primary author(s) :** Mr. BELOBORODOV, Konstantin (BINP)

**Presenter(s) :** Mr. BELOBORODOV, Konstantin (BINP)

**Session Classification :** Posters

**Track Classification :** Particle identification