KSETA Seminar Series

Dr. Konstantin Belov

(*KIT und Univ. of California, Los Angeles, USA)*

24.10.2014, 11:00-12:00

KIT Campus North, building 425, seminar room 206

Search for ultra-high energy Neutrinos with the ANITA experiment

Abstract

The ANtarctic Impulsive Transient Antenna (ANITA) is a balloon-borne radio detector designed to search for coherent radio Cherenkov radiation from ultra-high energy (UHE) neutrino-induced particle showers in the Antarctic ice sheet. Two ANITA flights have produced limits on the UHE neutrino flux. I will describe the instrument, the data analysis and discuss the results of the neutrino search.

Next lectures follow on:

10.11.2014, 14:00-15:00 (CN, buildg. 425, R206)
Detection of high-energy cosmic rays with the ANITA experiment

12.11.2014, 14:00-15:00 (CN, buildg. 425, R206)
Measurement of radio emission from particle cascades in the lab - the SLAC T-510 experiment