

ANALYSIS OF AVAILABILITY OF PHOTOMULTIPLIERS OF DETECTOR NEVOD

Thursday, 13 October 2016 16:45 (15)

The detection system of the Cherenkov water detector NEVOD includes 546 photomultipliers FEU-200 (Joint-Stock Company “Ekran - Optical Systems”, Novosibirsk). To control the main parameters of the PMT the monitoring procedure is conducted every 20 minutes. During monitoring gain dynode system, the linking coefficient of two linear ranges of the 12th and 9th dynodes and counting rate of noise pulses are measured for each PMT. The analysis of behavior of characteristics of PMT FEU-200 during the period from 2011 to 2016 years is presented in the report.

Primary author(s) : Mr. BURTSEV, Vitaliy (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute) / MEPhI)

Co-author(s) : Prof. PETRUKHIN, Anatoly (National Research Nuclear University MEPhI); Prof. YASHIN, Igor (National Research Nuclear University MEPhI); Dr. AMELCHAKOV, Mikhail (MEPhI); Dr. BARBASHINA, Natalia (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)); Mr. KHOMYAKOV, Vasilii (National Research Nuclear University MEPhI); Dr. KINDIN, Victor (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)); Dr. SHUTENKO, Victor (National Research Nuclear University (MEPhI))

Presenter(s) : Mr. BURTSEV, Vitaliy (National Research Nuclear University MEPhI (Moscow Engineering Physics Institute) / MEPhI)

Session Classification : Method of experimental physics - parallel V

Track Classification : Methods of experimental physics