



Contribution ID: 155

Type: poster

Design and implementation of new scintillation probes for the PAL spectrometry

Tuesday, 25 June 2019 13:30 (1h 30m)

Initial tests of a new measuring probe for use in PALS spectrometry were designed and carried out. Unlike commercial measuring probes, SiPM's were used as scintillation light detectors. Tests were carried out with various types of scintillation materials, e.g. NaI (TI), BaF₂ & BC412. Three types of SiPM's (KETEK & SensL) were also tested.

Main advantages of this project are: mobility of new PAL spectrometer design (mPALS), safety increase in field experiments and hazardous environments (no HV on user side) and immunity to random magnetic field fluctuations (which is the main concern with PMT usage)

The new device will be able to be used for cancer diagnostics in hospital facilities.

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Session Classification: Poster session