

In this thesis, the influence of metal contacts, prepared on semiconductor detectors made of high resistive $Cd_{0,85}Zn_{0,15}Te$, on the quality of detected signal was investigated. The goal of this thesis was to prepare ohmic contacts. Two materials (gold, platinum) and two methods of the preparation (chemical deposition, evaporation) were tested. It was found that improved detection properties were obtained on detectors prepared with gold contacts. Current-voltage characteristics of these contacts were found to be pseudoohmic. Moreover, when the Au contacts are prepared by evaporation, the value of the surface leakage current is lower.