

Use of Pattern Recognition Methods in Track Analysis of Solid Detectors

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This report is based on the results of use the PAVICOM facility in investigations of nuclear and elementary particles tracks. This facility has been constructed in Lebedev Physical Institute and includes three automatic microscopes. They allow to analyse particles tracks in different kinds of material: nuclear photo emulsion, plastic and minerals (olivine). As a result the images of tracks and their geometrical characteristics very differ in various experiments. This circumstance demands use of various image recognition methods depending on properties of images and aims of experiment. During work in different experiments the PAVICOM group designed numerous algorithms of processing particles tracks in complicated events. In this report some of them are represented.

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