

Trends in integrated circuit design for particle physics experiments

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Integrated Circuits are one of the important elements of detector system. A number of factors make ICs obligatory for Particle Physics and Astrophysics experiments. These are: integration scale, low power dissipation, radiation tolerance. Today chips should provide new level of functionality, fitting to a new set of constraints and trade-offs. The talk presents overview of the state of the art and trends in nowadays chip design. It shows a next stage of micro- and nanoelectronics usage at physical instrumentation.

Primary author(s) : Dr. ATKIN, Eduard (National Research Nuclear University MEPhI)

Presenter(s) : Dr. ATKIN, Eduard (National Research Nuclear University MEPhI)

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