Energy-Efficient Readout System for Semiconductor Radiation Detectors

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Problem Contextualization
Medipix Collaboration

A complete and interesting review of the Medipix and Timepix ASICs is presented by Ballabriga et al. [2018]. In that review the design of the chips is explained in technical details and a number of other related chip developments are discussed.

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Problem Contextualization
Applications

- Example text.
- (...)
- (...)

Power Dissipation Trade-Off
Timepix in Space

Example text.
(...)

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Power Dissipation Trade-Off
Medipix4

Example text.
(...)

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Objectives
Dynamic Frequency Scaling

Example text.

(...)

Objectives
Clock-Gating

Example text.
(...)

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Materials

Example text.

(...)

Methods

Example text.

(...)

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Simulation

Example text!!

(...)

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Experiments

Example text!!!
(...)

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Conclusions

This is my conclusion.
(...)

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