

## Front end electronics

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Front-end electronics are one of the most important components in a particle detector system. Their main purpose is to amplify the small detector signal trying to maximize the Signal-to-Noise ratio and, sometimes, to perform some basic processing like energy and time measurement, digitization and storage, according to the specific application. After an introduction to some basic noise principles, a general overview of the most common front-end schemes will be shown together with some examples and future perspectives.

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