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Integral Concept of Sensors and Electronics –Past to Future

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Breakthrough advances in particle and photon detectors have occurred when the sensors were enabled by the readout electronics, and especially so when they were developed as an integral concept of charge and light sensing and low noise electronics. Some of the most successful detector systems, either in operation today or planned and being constructed for the future, have been spawned by pioneering efforts in the past. Examples in which the integral concept has led to breakthrough advances are high purity germanium gamma-ray detectors, noble liquid calorimetry and time projection chambers (both gas and liquid, most involving cold electronics). A brief glimpse at those is illustrative, but cannot be all-inclusive.

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