

SENSE - Ultimate Low Light-Level Sensor Development

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SENSE - Ultimate low light-level sensor development is a project funded by the EC Horizon 2020 as FET Open Coordination and Support Action (CSA).

The aim of SENSE is to coordinate research and development efforts in academia and industry in low light-level (LLL) sensing.

Therefore we prepared a European R&D roadmap towards the ultimate LLL sensor and with the experts group the progress with respect to the roadmap will be monitored.

In collaboration with several labs, experienced in measuring photosensors, a common characterization of SiPMs with standardized measurements and analysis procedures is developed. Further cooperation especially with industrial partners is in preparation.

Another main aspect of the project is the dissemination of results and the communication between all involved partners and interested parties. The SENSE website, including the SENSE forum, provides all kind of information related to photosensors and allows for communication between all involved actors. In the future a database containing the results of SiPM characterization is planned.

Several outreach activities and special trainings for students are also part of the project and will be extended in the future.

The consortium has four partners: DESY (Coordinator), Germany; UNIGE, Switzerland; MPP, Germany and KIT, Germany. Several international experts on all parts of LLL developments are involved in the expert or working group of the project.

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