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NOA: a new reality for novel SiPM-based detector production

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Silicon Photo Multipliers aim to be a promising technology in the next generation experiments, based on ultra-low background large volume detectors searching for rare events. Novel photosensors with high performance at cryogenic temperature have been developed by Fondazione Bruno Kessler and integrated by Laboratori Nazionali del Gran Sasso in large area photodetectors, thus opening the frontiers toward the realization of scalable liquid Argon experiments probing dark matter. A large-scale production of SiPM-based detectors can be achieved in the Nuova Officina Assergi infrastructure, a clean room of 420 m² soon operative at Laboratori Nazionali del Gran Sasso, hosting the most advanced packaging and electronic test facilities for the integration of large arrays of radiopure SiPM photodetectors.

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