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Panoply of Insertion Devices for SOLEIL II Project

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SOLEIL II is a project aiming at upgrading the present SOLEIL synchrotron to a fourth-generation light source. The photon spectral performances such as brightness and flux density will be highly increased by a drastic decrease of the natural horizontal emittance, below 100 pm.rad. The goal will be accomplished by an increase of the number of magnets and the compactness of the equipment. Big efforts on the lattice have been performed to preserve the space for present in-vacuum and cryogenic insertion devices. Nonetheless most of the space dedicated to the other types of insertion devices will be reduced by 30 %, making difficult to cover the present wide spectral range required for the beamlines using presently juxtaposed undulators. In this purpose new innovated solutions have been developed, prototyped, and tested at SOLEIL. The report will give an overview of the insertion devices portfolio which will be installed from the SOLEIL II start.

I plan to submit also conference proceedings

Yes

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