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PRESENT AND FUTURE OF THE ALBA SYNCHROTRON IN SPAIN

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Abstract

Over the past decade, the ALBA Synchrotron, the Spanish 3rd generation light source, has become an important pillar of the Spanish and European Research Area, providing research capabilities and a wide range of state-of-the-art instrumentation to a community of more than 6000 academic and industrial users. With its ten operating beamlines, while building three more, it is an essential tool for addressing the most urgent challenges of the society. ALBA dedicated industrial program impacts directly the economic growth offering new development opportunities and ultimately windows of innovation for a variety of companies. ALBA plays today an important role in science tutoring and training, preparing young scientist and engineers for their future career, and is a tool for education of the general public. ALBA is prepared to leap to the 4th generation, boosting its impact on the user community and on the industrial use of the instrumentation, and reinforcing its educational vocation and training capacity. ALBA II, whose project has just started, will combine the substitution of part of the accelerator with the construction of new fully-optimized beamlines, and with the refurbishment of part of its instrumentation, to be fully operative in the '30s.

About

La Dra. Caterina Biscari es una física, directora del Sincrotrón ALBA. Licenciada en Física por la Universidad Complutense de Madrid y Doctora en Física por la Universidad degli Studi di Napoli, ha desarrollado su carrera científica en el ámbito de los aceleradores de partículas en diversos laboratorios del mundo, como la Organización Europea para la Investigación Nuclear (CERN), el Laboratorio Nazionale de Frascati del INEN y el Centro Nacional de Hadronterapia Oncológica de Pavia, contribuyendo al desarrollo de aceleradores para investigación fundamental, investigación aplicada y aplicaciones médicas. Es EPS Fellow por sus contribuciones claves en el diseño, la construcción y la puesta en marcha de aceleradores. Desde 2012 es Directora del Laboratorio de Luz de Sincrotrón ALBA. Miembro de comités asesores de proyectos en diversos países, entre otros el comité asesor de los aceleradores del CERN, de la Fuente Europea de Neutrones ESS, de la fuente de fotones Europea XFEL. En 2012 recibió la condecoración de Oficial de la Estrela de Italia.

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