

BECAS DE COLABORACIÓN – JAE INTRO 2020
EN CENTROS DE EXCELENCIA SEVERO OCHOA – CSIC

TÍTULO DEL PROYECTO:

Ultra-high field superconductors for high-energy physics

IP:

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RESUMEN DE LA PROPUESTA:
(Máximo 500 caracteres)

The project aims to study the novel [TLAG-CSD superconducting layers](#) developed at the [SUMAN group](#) in ICMAB as candidates for coated conductors to be used at ultra-high magnetic fields applications, such as CERN's future circular collider or axion haloscopes for Dark Matter detection (applications being developed at present in the SUMAN group). In order to assess the feasibility of the TLAG-CSD layers, we plan to study their superconducting properties under very high magnetic fields (<16T), in a broad temperature range (4K – 90K) and under microwave electromagnetic fields (<10GHz).