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Thu-Af-Po.01-10: Turning points in the application of superconductivity to magnets

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The report will explore the societal context of the major turning points in the application of superconductivity that have been crucial for the development of magnet technology. This is relevant in that we are now at a point where a further breakthrough is necessary to enable the development of affordable high field magnets (16 to 20 tesla dipoles), appropriate for series production and economical use in particle accelerators. Analysis of the historical context associated with previous watershed moments may indicate ways to create an environment conducive to bringing forth the next such turning point.

Author: Prof. TAYLOR, Thomas (Ettore Majorana Cent. Sci. Culture (IT))

Presenter: Prof. TAYLOR, Thomas (Ettore Majorana Cent. Sci. Culture (IT))

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