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High power single stage cyclotron

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The state of the art of accelerator physics and technologies allows to cope with the challenge of a compact cyclotron driver for an ADS demonstrator aiming at providing a proton beam power in the 5 to 10 MWatt range. The Single Stage Cyclotron Driver (S2CDTM) design studies developed by the AIMA DEVELOPMENT (AD) company show that this concept could bring industrial attractive solutions in terms of reliability, maintenance, investment, running cost effectiveness and power efficiency. Some critical aspects are presented in this paper

Author: CONJAT, Matthieu (AIMA Developpement)

Co-author: MANDRILLON, Pierre (AIMA Developpement)

Presenter: CONJAT, Matthieu (AIMA Developpement)

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