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Recent developments towards very high efficiency klystrons

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Even though the klystron concept is more than 50 years old, recent innovative ideas concerning the bunching mechanism promise a significant increase of electronic efficiency and indicate the possibility to reach 90%. These ideas include “bunch core oscillations”, “congregated bunches” and the BAC method (for “bunch - align - collect”). We will present the status of this work including the recent first experimental verification of the principle.

E. Jensen reporting for the collaboration (I. Syratchev, A. Baikov, I. Guzilov, J. Neilson, A. Jensen, G. Burt, D. Constable, C. Lingwood, A. Mollard, R. Marchesin, Q. Vuillemin, C. Marrelli, R. Kowalczyk, T. Grant)

Summary

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