

Insertion Devices Produced at DANFYSIK A/S,
H. BACH, K.I. BLOMQUIST, M.B. PEDERSEN,
M. VIGNAT, DANFYSIK A/S; J. CHAVANNE,
P. ELLEAUME, ESRF. - Four insertion devices have been
designed and manufactured at DANFYSIK A/S, three
undulators with 50, 55 and 100 mm period and a wiggler
with 175 mm period. The undulators have been multipole-
and spectrum shimmed [1], and are characterised by small
phase angle errors (1-3 deg), small integrated multipoles
and a small variation of the field integrals with the undulator
gap without the need for correction coils. The wiggler is
designed to have a "flat top" magnetic field to drive several
high energy beam lines simultaneously. The integrated
multipoles are small and well within specifications, the
variations of the first integrals with the wiggler gap in about
2 Gauss-meters and there is no need to use correction coils
at the 16 mm minimum gap. All insertion devices designed
and manufactured meet customer specifications with good
margins.

- [1] J. Chavanne, P. Elleaume, Synchrotron Radiation
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