1. TANDEM OPERATION

H. Münzer, L. Rohrer

In 1992 the tandem logged 6500 hours of operation. Operating statistics are shown in fig. 1 and table 1.

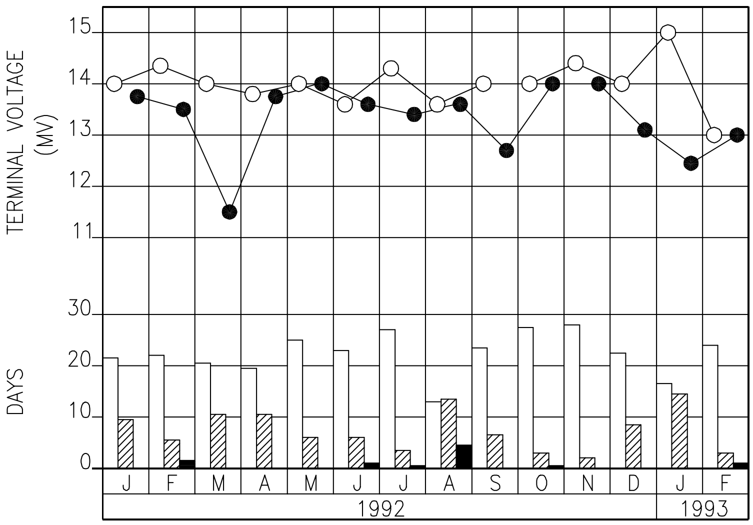

Fig. 1: Operating voltages and times

Main emphasis was on trouble free beam operation. There were no problems with accelerating tubes, charging system or resistors. Only minor improvements were introduced, comprising for instance new power supplies for the charging chains and some of the lenses and steerers, new long-lasting corona points and remotely controlled switches for dead section pumps. Detailed calculations of field distributions around the terminal were performed, as a result the present equipotential bars will be replaced by an optimized barrel shaped terminal spinning. The layout of the new standard injector is finished, many components are ordered. The beam line leading to TRITRON was installed and successfully tested with beam. Additional components and systems were connected to the new computer control for tandem and TRITRON, this work is described in a separate contribution.

Table 1: 1992 ion beam time

ION	^{1}H	^{2}H	^{4}He	^{12}C	^{16}O	^{26,27}Al	^{32}S	^{36}S
PERCENT	9.0	8.8	62	3.2	4.6	5.5	15.6	3.4
ION	^{35}Cl	^{36}Cl	^{48}Ti	^{58}Ni	^{62}Ni	^{88,90}Sr	^{127}J	OTHERS
PERCENT	2.2	6.8	2.2	7.0	4.0	4.6	5.2	9.4