I
TANDEM

Tandem Operation

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In 1999 the tandem accelerator was in operation for 7220 hours. Operating statistics are shown in fig. 1 and table 1. The machine worked reliably. Only one unscheduled tank opening was necessary to replace an idler wheel of the pelletron charging system. We took the opportunity to replace also the high voltage tank feed throughs.

Some preventive maintenance was done in several periods: We replaced the idler wheel bearings of the charging chains on the high energy side, the other half was already done in 1998. The 1000 l/s ion getter pump in the terminal was taken out in autumn for cleaning and service and reinstalled at the end of the year. Now the pumping speed enables gas stripper operation again. A new generating voltmeter [1] was installed end of march.

The personal computers for the accelerator control system are going to be converted from Windows 3.11 to Windows NT. In cooperation with FORTecH Software, Rostock, we are updating our applications. More and more experimental equipment, for instance the complete SNAKE setup [2], was connected to the control system.

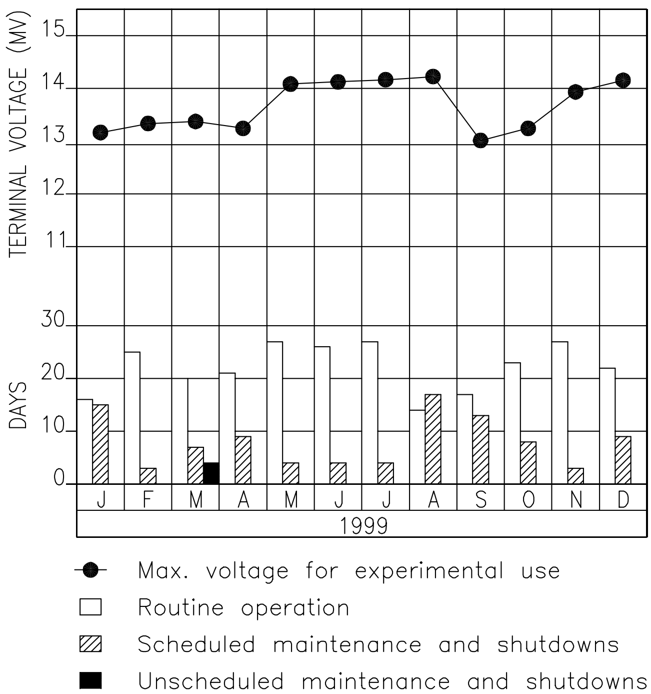

Fig. 1: Operating statistics

ION	^{1}H	^{2}H	$^{2}\vec{H}$	^{4}He	^{12}C	^{16,18}O	^{26}Al	^{32}S	^{36}S
PERCENT	16.8	5.8	3.5	7.3	3.1	2.3	1.5	10.0	2.7
ION	^{35}Cl	^{33,37}Cl	^{48}Ti	^{56}Fe	^{58,60}Ni	^{63}Ni	^{127}J	^{197}Au	Others
PERCENT	3.5	3.1	3.1	2.3	8.8	1.5	5.4	11.2	8.1

Table 1: 1998 ion beam time

References

[1] P. Hartung *et al.*, this report p.88
[2] G. Dollinger *et al.*, this report p.89