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Report from Working Group 3
Working Group

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Version

Diagram:

- T
- NBF
- EER
- PFC
- APE
- EY
- CAT
- B
- 327um 1.2 GeV
- 960um 9 GeV
- 200-800 MeV
- ZFAS
- DTL
- SCL
stick to Version II

main questions:
- still 100μA P ?
- staging and upgrading ?
  in energy or current ?
  in kind of ions ? #I first, P later ?
- solution open for late decisions ?
Possibilities to start?

1) No Prebooster

- attractive +I energy
- still a 9 GeV p beam at \( \approx 1.0 \mu \text{A} \)?

- upgrading
  - loose EHF linac or even full 1.2 GeV linac
  - no Booster \( p \)-current \( 20 - 100 \mu \text{A} \)

  - build Prebooster to obtain higher \( p \)-current together with holding rig.

- new rf system for Booster

2) No Booster
- full intensity HI-beam $10^{10}$ ppp
  at low energies $4.30$ MeV/A
  at $20^+$ TAU $\frac{4}{3} \approx \frac{1}{3}$
- 1.2 GeV p-beam at 40 µA
velocities and charge to mass ratio for protons and ions

PB$_5$ = PREBOOSTER cycling at 5 Hz
PB$_{50}$ = 11 11 650 Hz