
Accelerator complex for next generation heavy ion therapy and research facilities

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architect D. Kaprinis

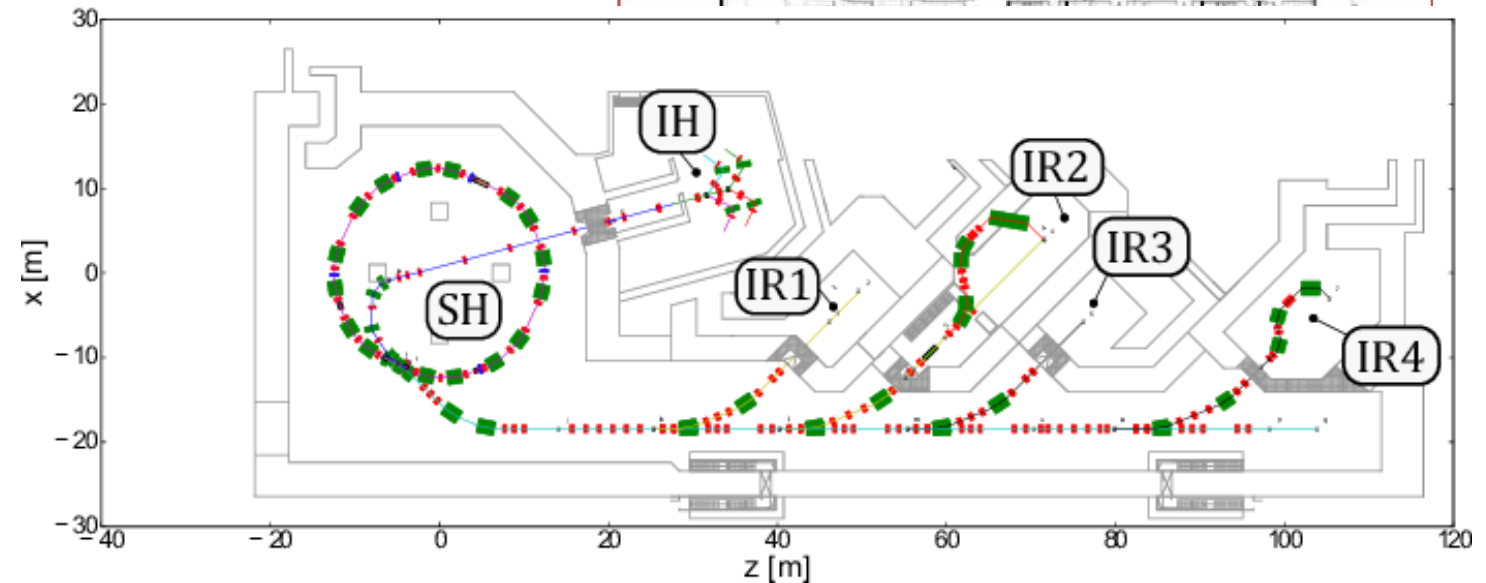
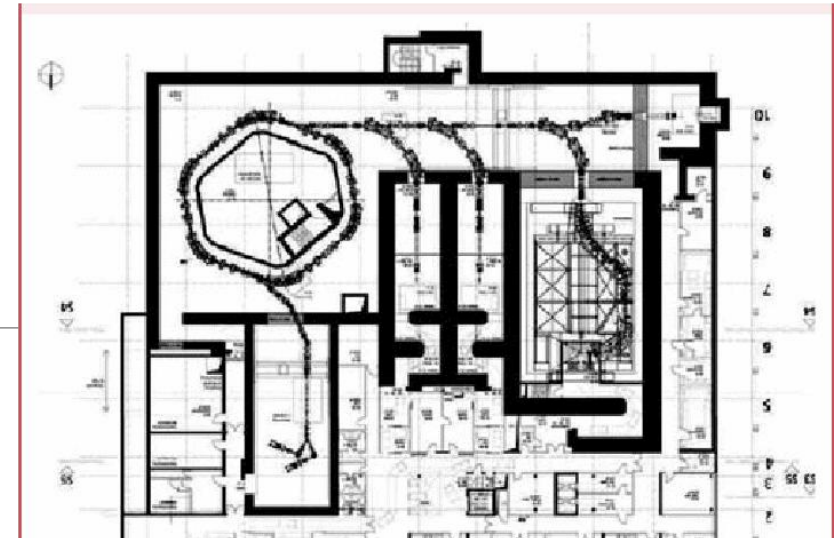
Existing facilities

HIT:

- Strong space constraints (had to fit to the clinic)

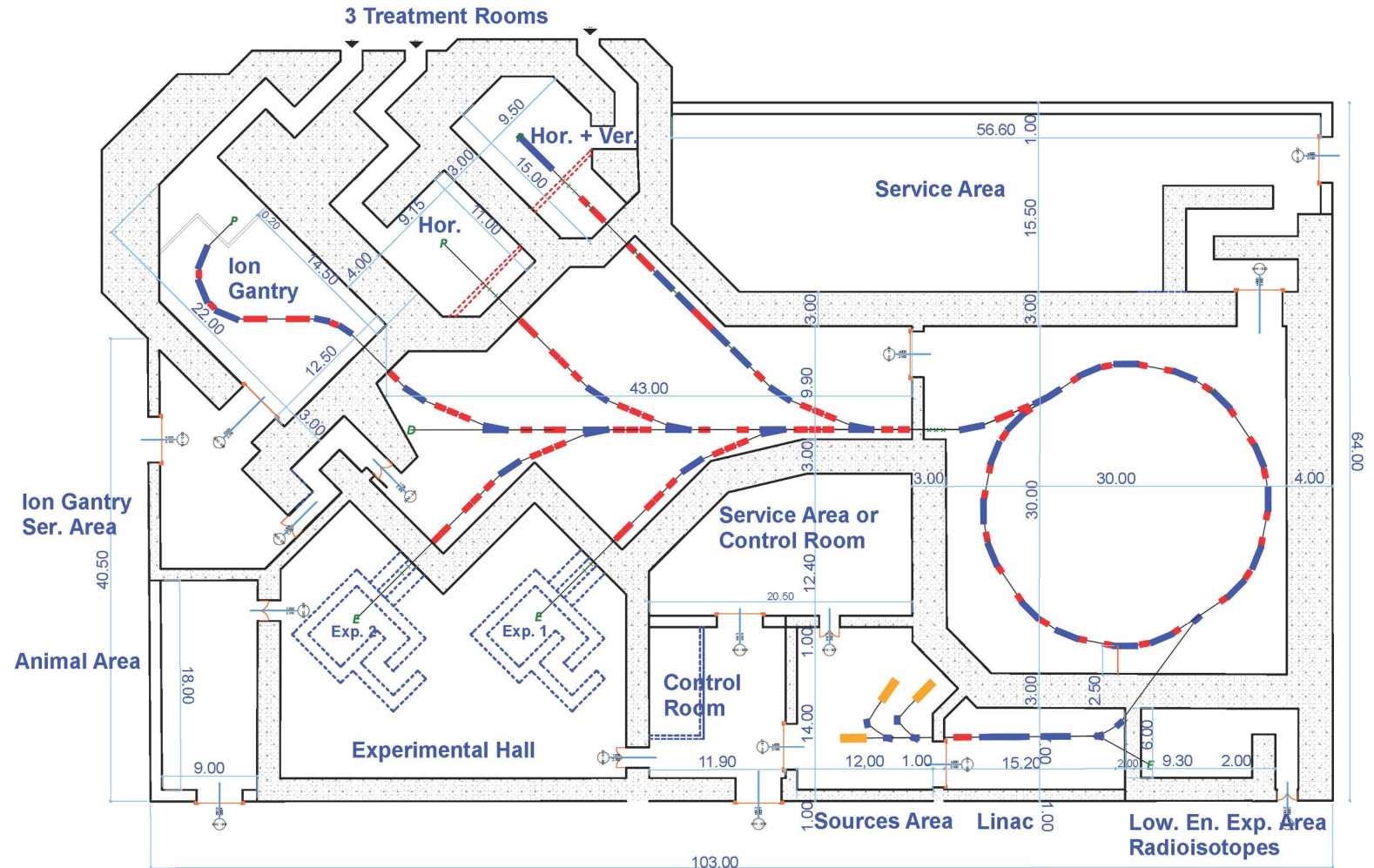
MedAustron:

- No space constraints
- Follow closely elegant PIMMS design (split functions of quadrupoles, rotator)



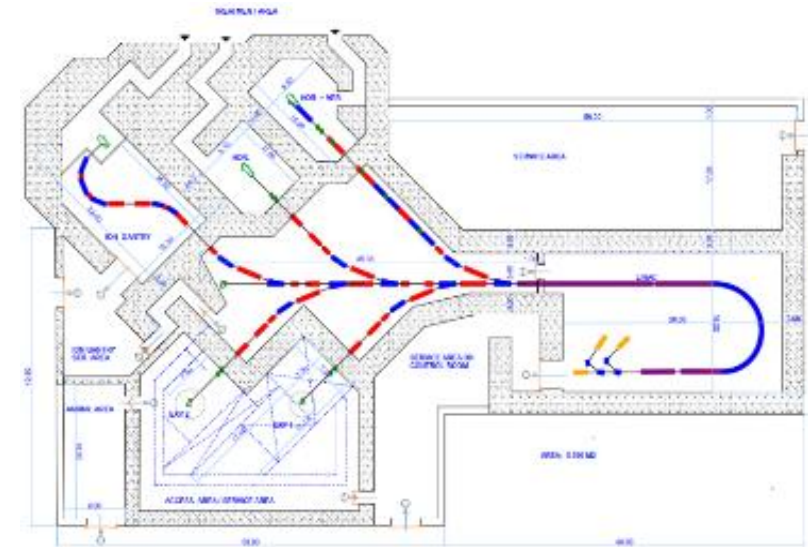
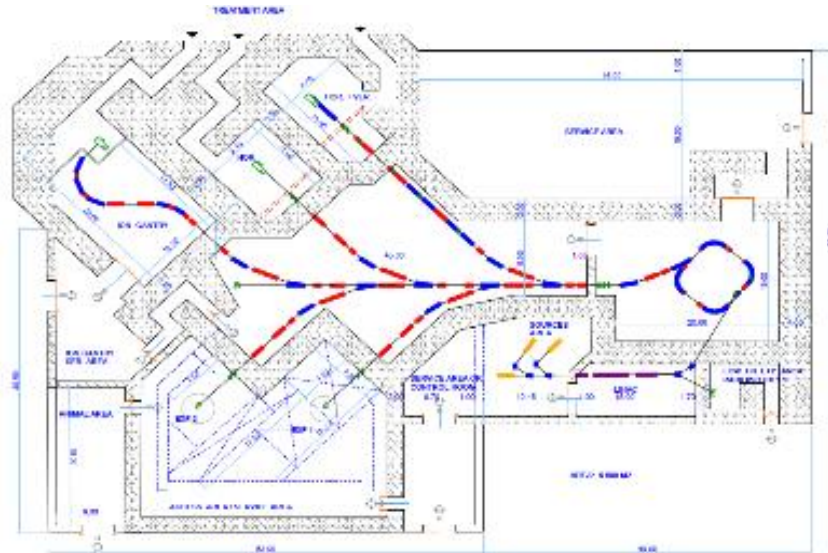
Design assumptions

- No space constraints (green field)
- Large treatment rooms (~10 m space between patient irradiation ports)
- H, H/V and gantry lines
- Separate experiments from treatment
- Allow for future expansions
- Large, reconfigurable experimental area
- Ion sources in separate hall (access during operation)
- 2-stage linac for potential radioisotope production



AREA: 6.500 M2

Alternatives



Thank you for your attention!

