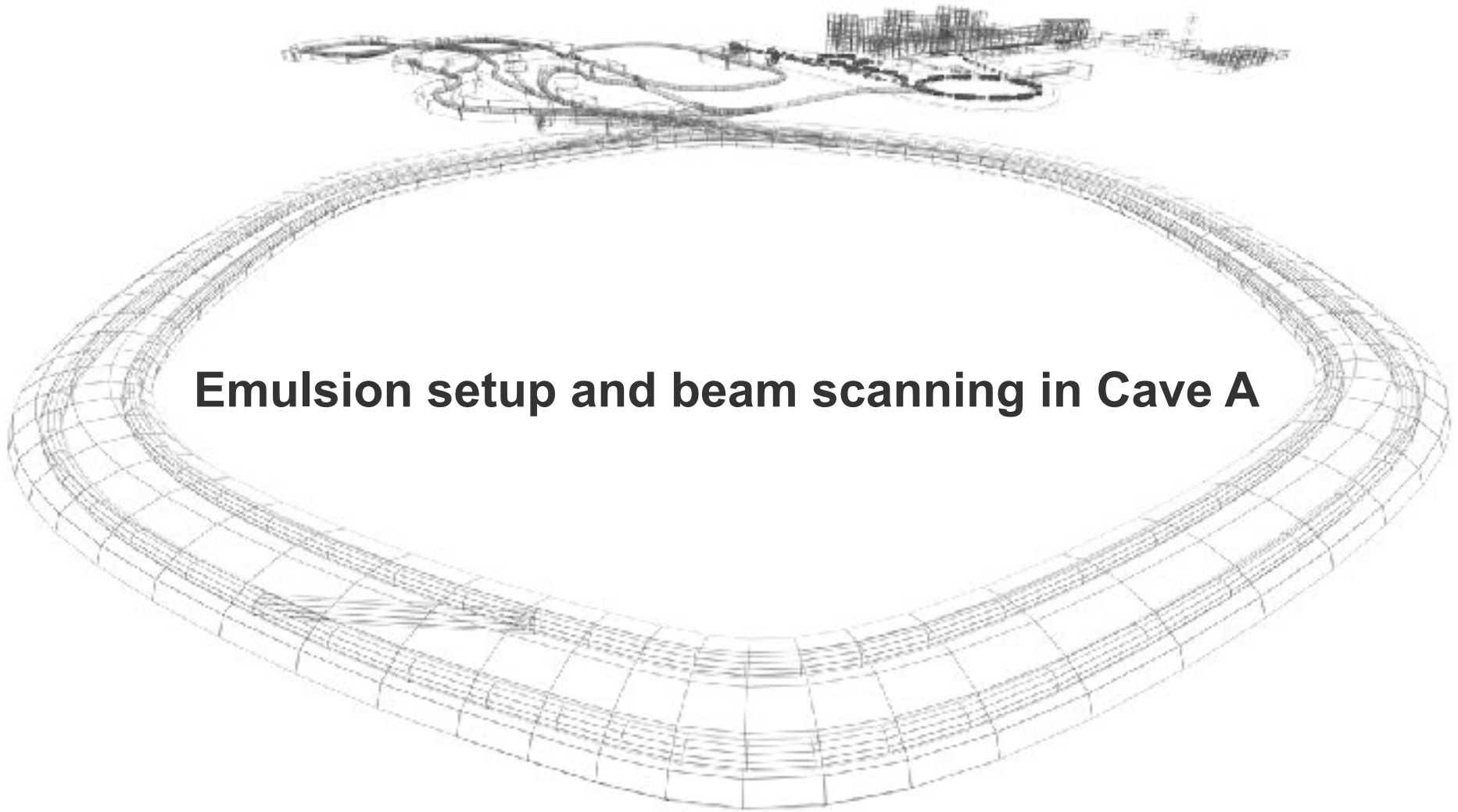


A 3D wireframe model of a particle accelerator, likely the FAIR facility. The model shows a large, oval-shaped ring structure with a grid-like pattern, representing the beam pipe and surrounding infrastructure. In the background, there are smaller, more complex structures, possibly representing the injection and extraction systems. The text 'Emulsion setup and beam scanning in Cave A' is overlaid on the central part of the ring.

Emulsion setup and beam scanning in Cave A

,Current' idea for emulsion setup

- Problem
 - Give specific number of particles to a certain area

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Exactly why
magnetic scanning
was invented

Ready for possible beamtime in 2018 @ GSI?

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Tradeoff between complexity

beamtime (mechanical)



analysis (magnetic)

- Cons

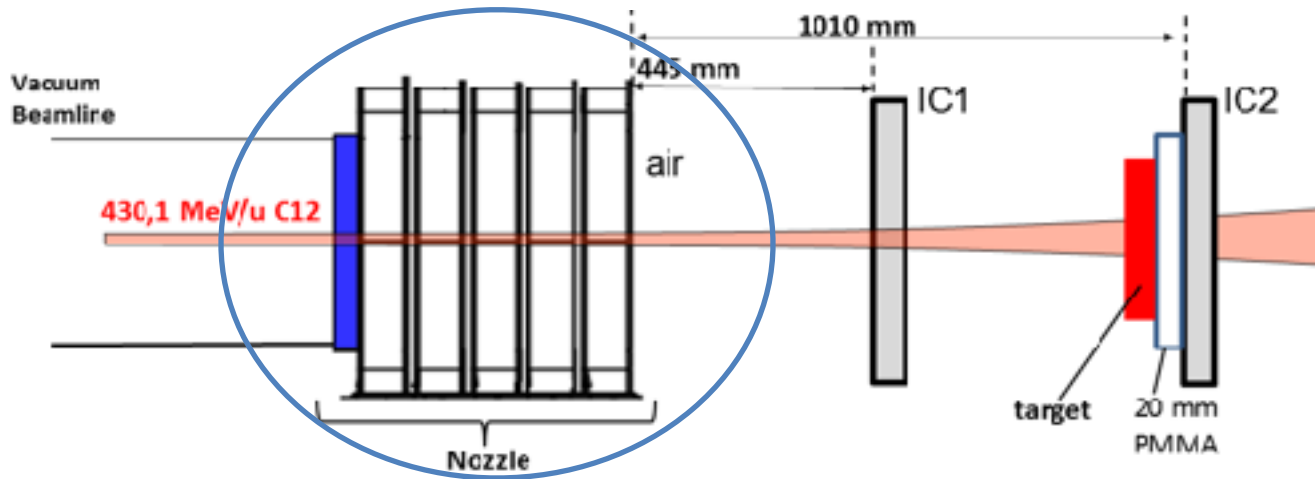
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Cave A scanner information

- Scanning is limited by
 - vacuum window size
 - (max 20 * 20 kevlar/kapton window(therapy)) Cave A/M
 - magnets
 - 0.5 T (Cave A)
 - 0.38 T (Cave M)
 - 0.31 T (CNAO)

2D – Magnetic scanning

2D – Magnetic scanning



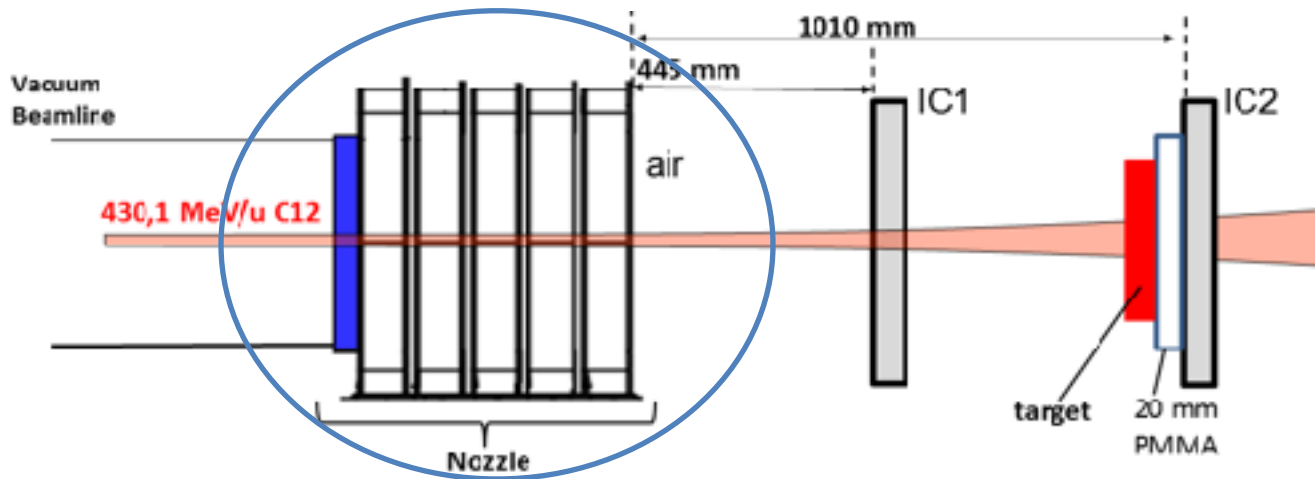
Real time
control



Slow-control



2D – Magnetic scanning



Real time
control



Nbr of particles

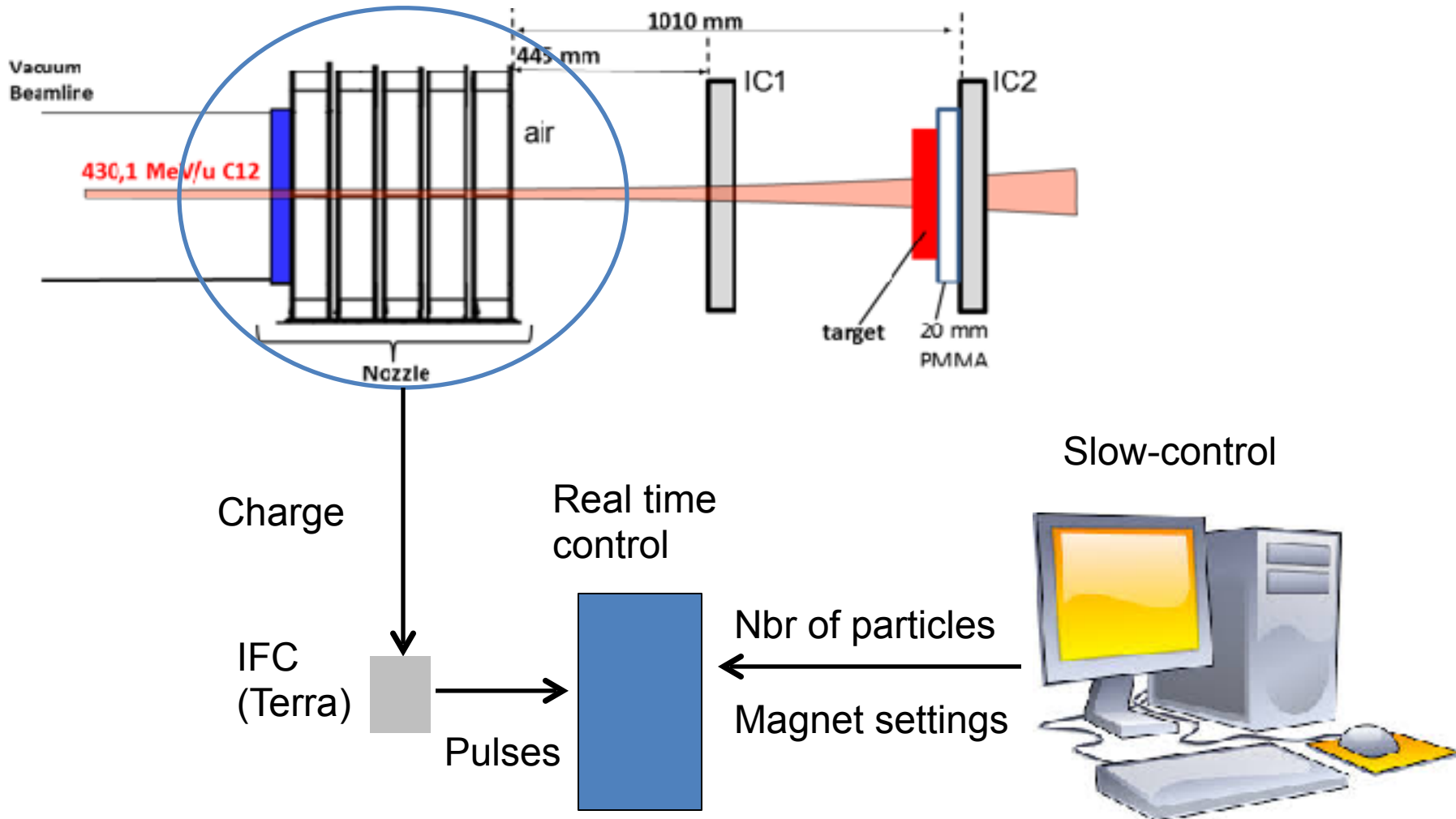


Magnet settings

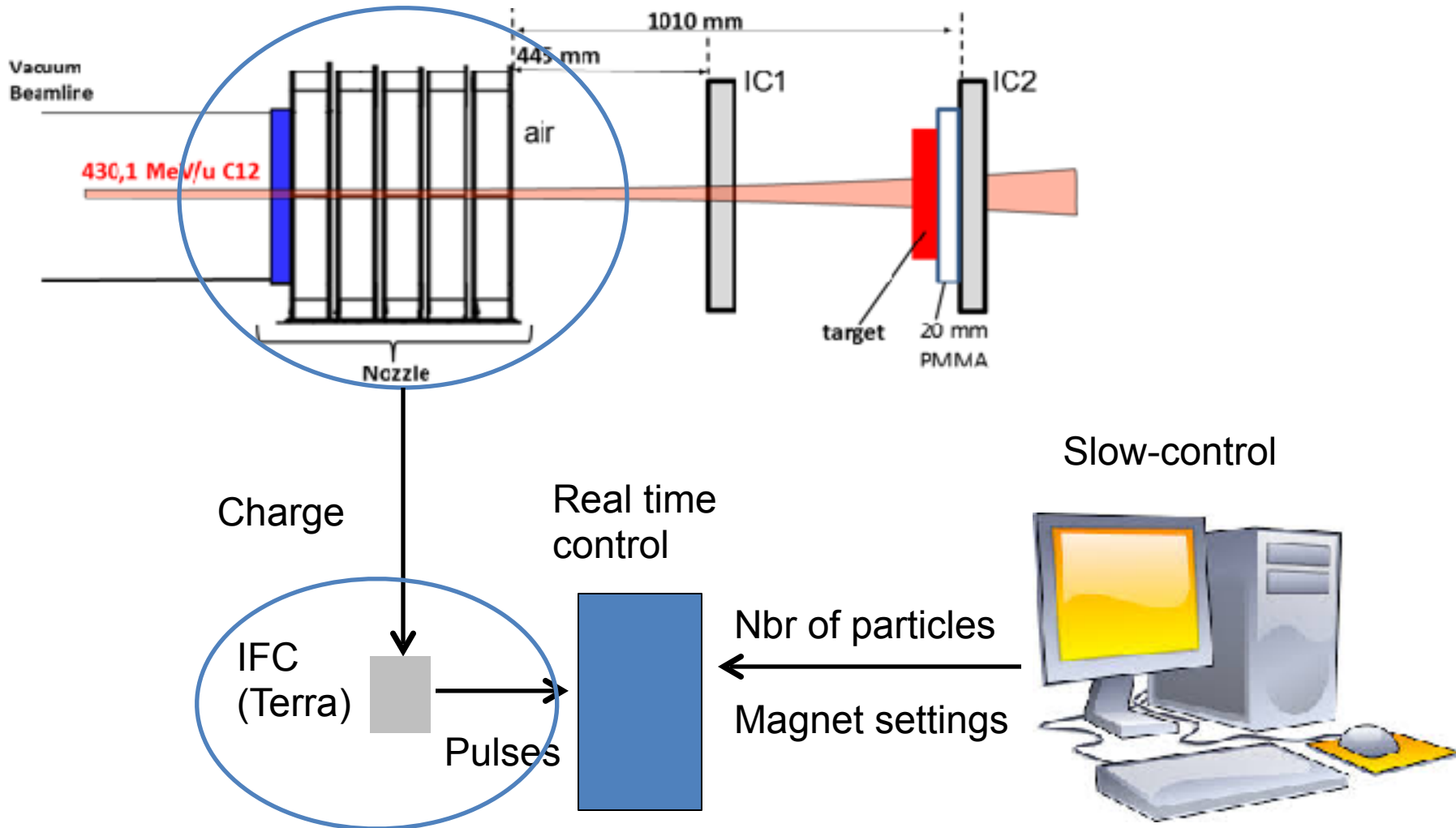
Slow-control



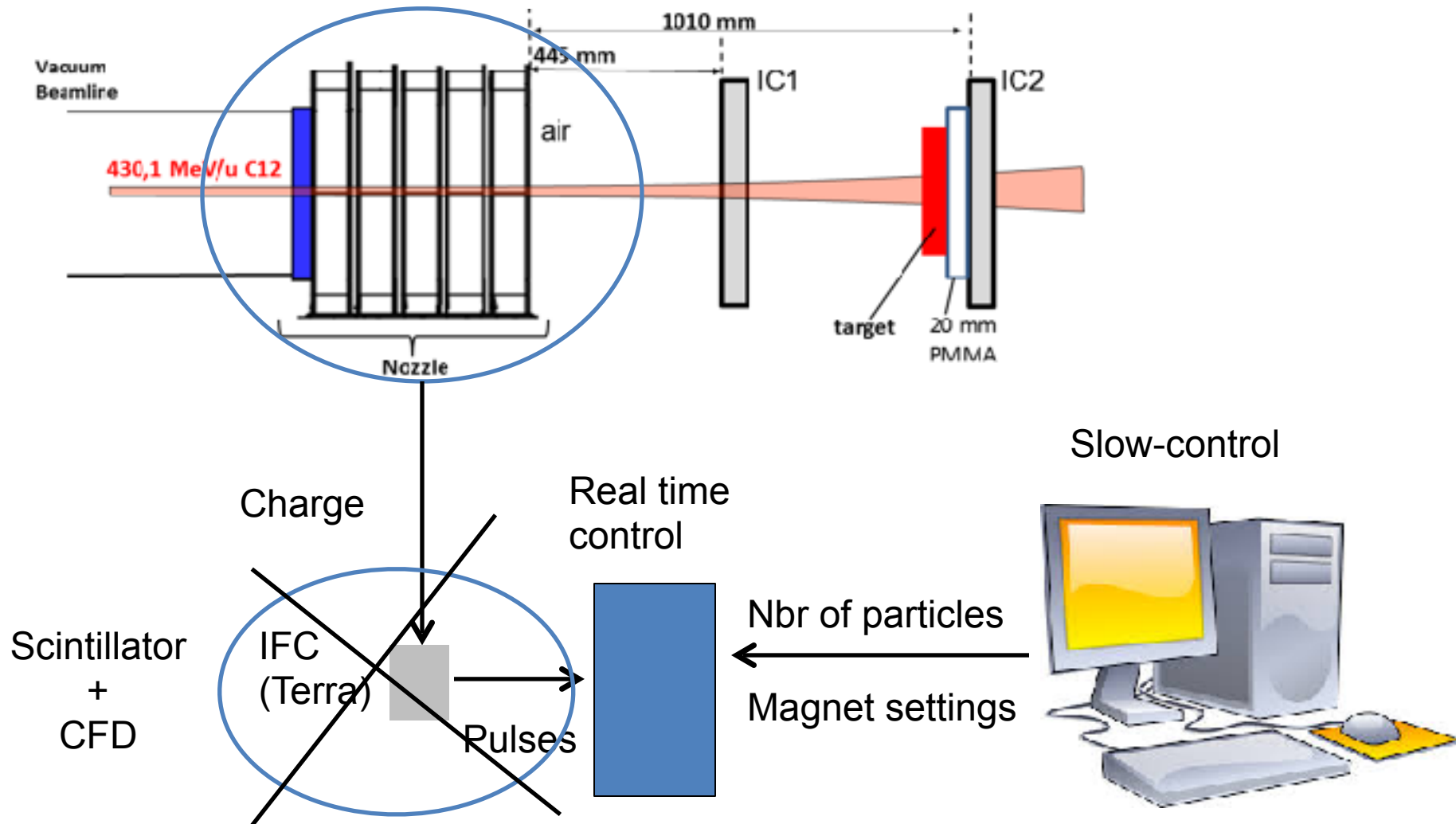
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2D – Magnetic scanning



Questions?