

Far-Forward/Far-Backward Crosscutting WG Meeting

18th July 2023

Previous meeting: [Kick-off Far Forward/Far Backward - 23 May 2023](#)

- Focused on introductions and current issues with integration of detector systems with the EIC

Today's Meeting: [Far Forward/Far Backward - 18 July 2023](#)

1. Technology discussions:
 - Timepix4 suitability for subsystems
 - Pair spectrometer tracker technology choice
2. Reconstruction discussions:
 - How different detector subsystems approach the unique challenges from beamline magnets

Co-conveners:

Simon Gardner (University of Glasgow)
Simon.Gardner@glasgow.ac.uk

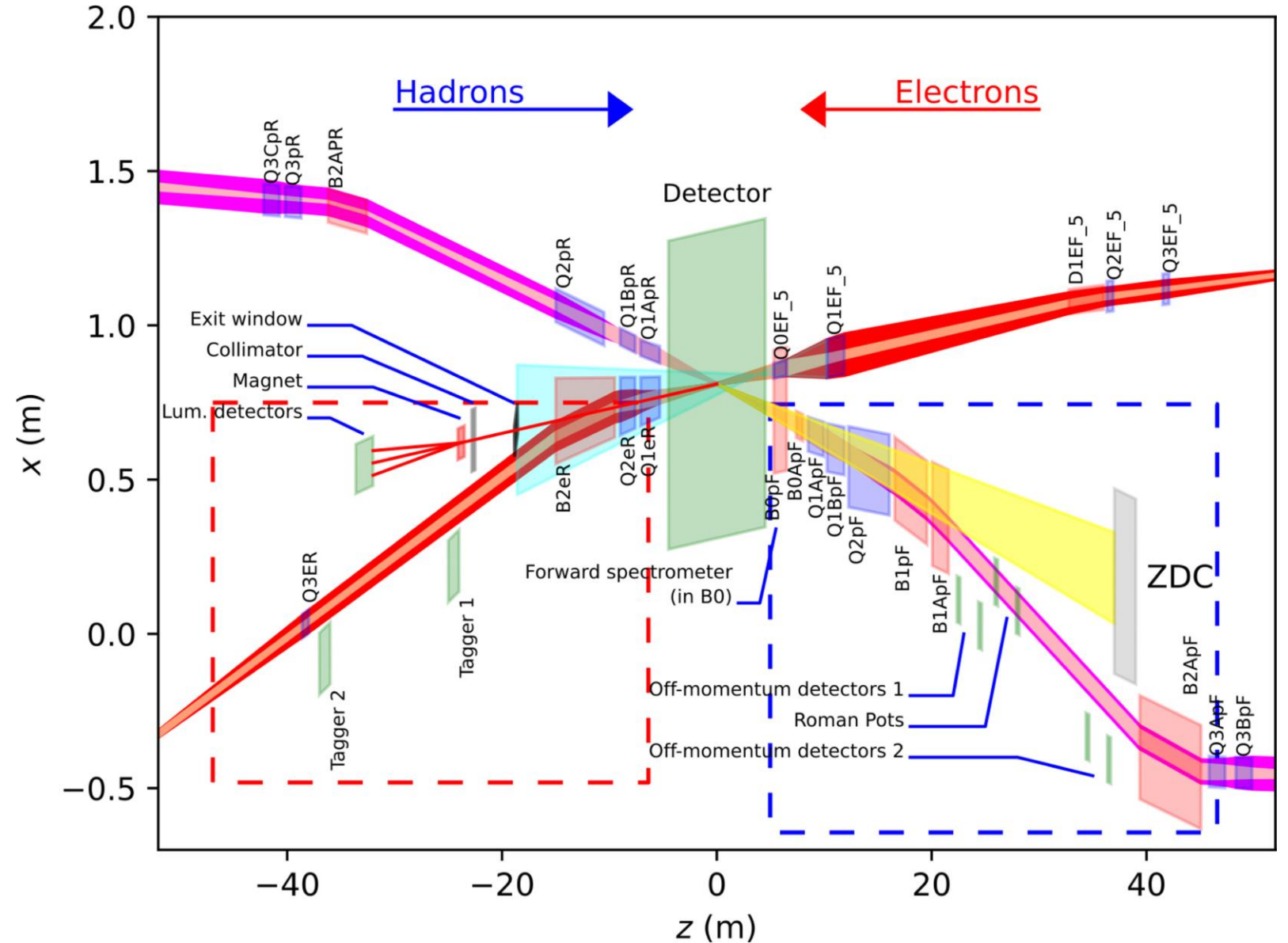
Nathaly Santiesteban (University of New Hampshire)
nathaly.santiesteban@unh.edu



Context – No forest just trees last meeting

Sub-systems

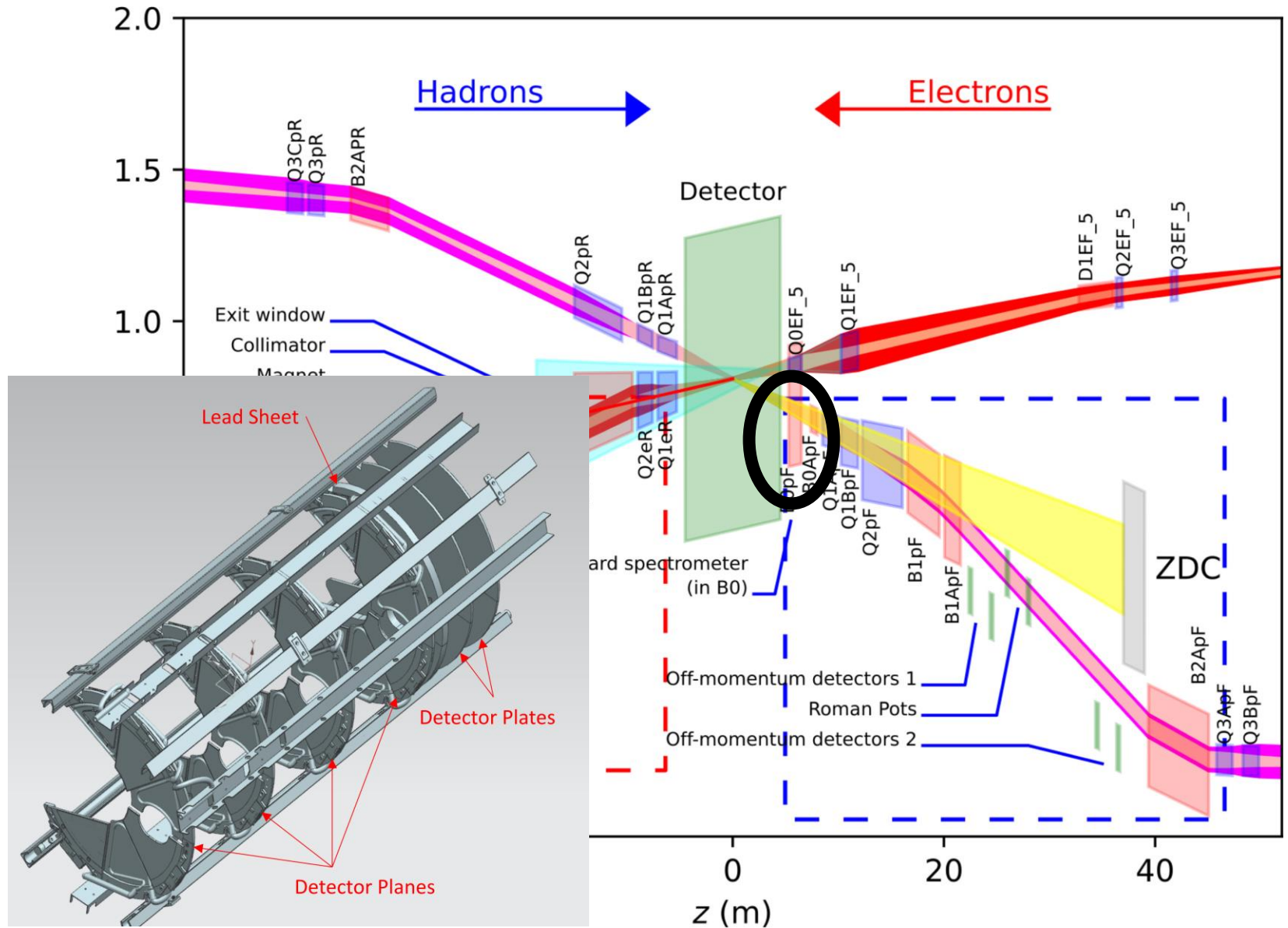
- B0
- Off Momentum
- Roman Pots
- ZDC
- Luminosity – Direct
- Luminosity – PS
- Low-Q2 Taggers



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Sub-systems

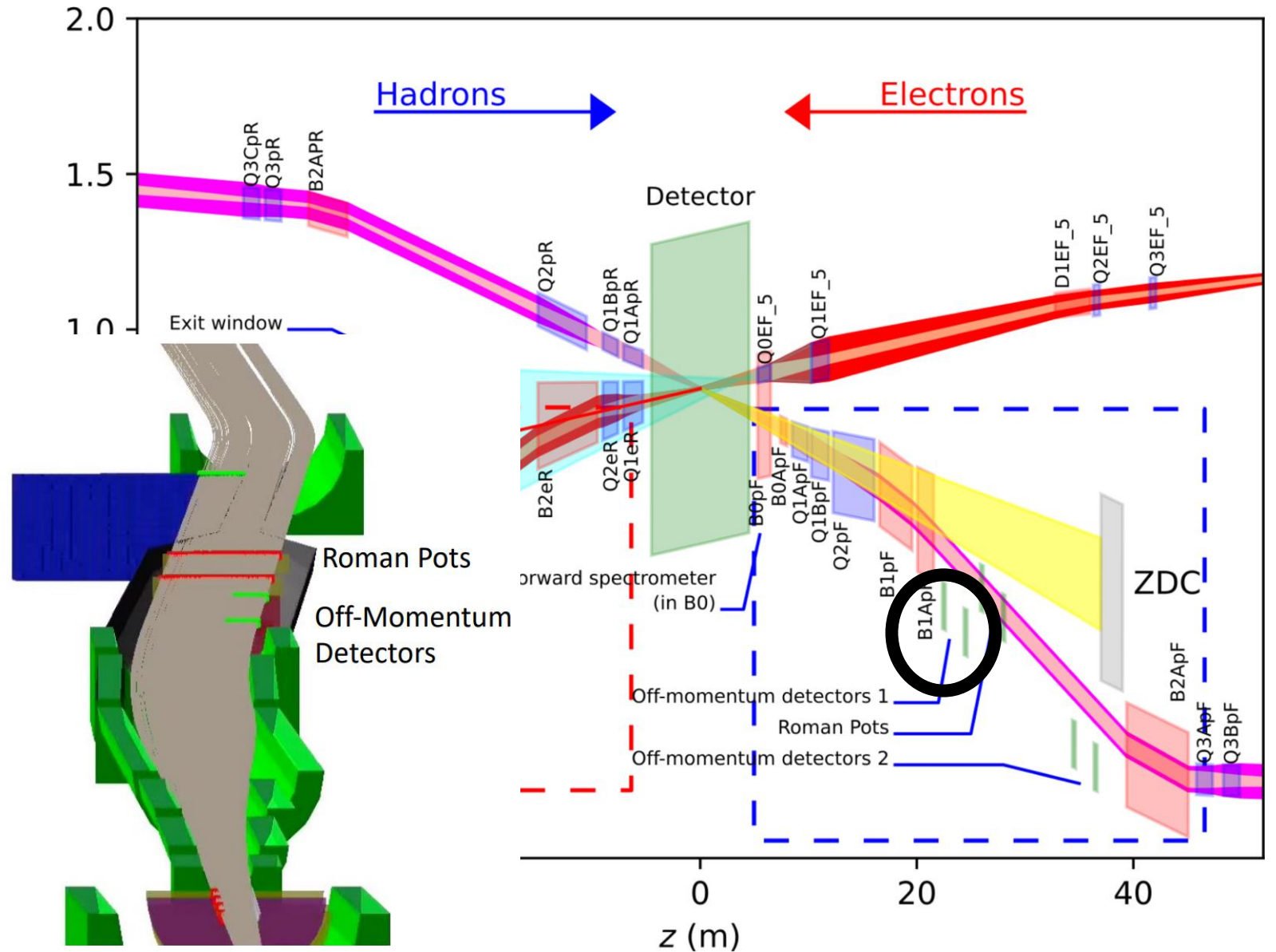
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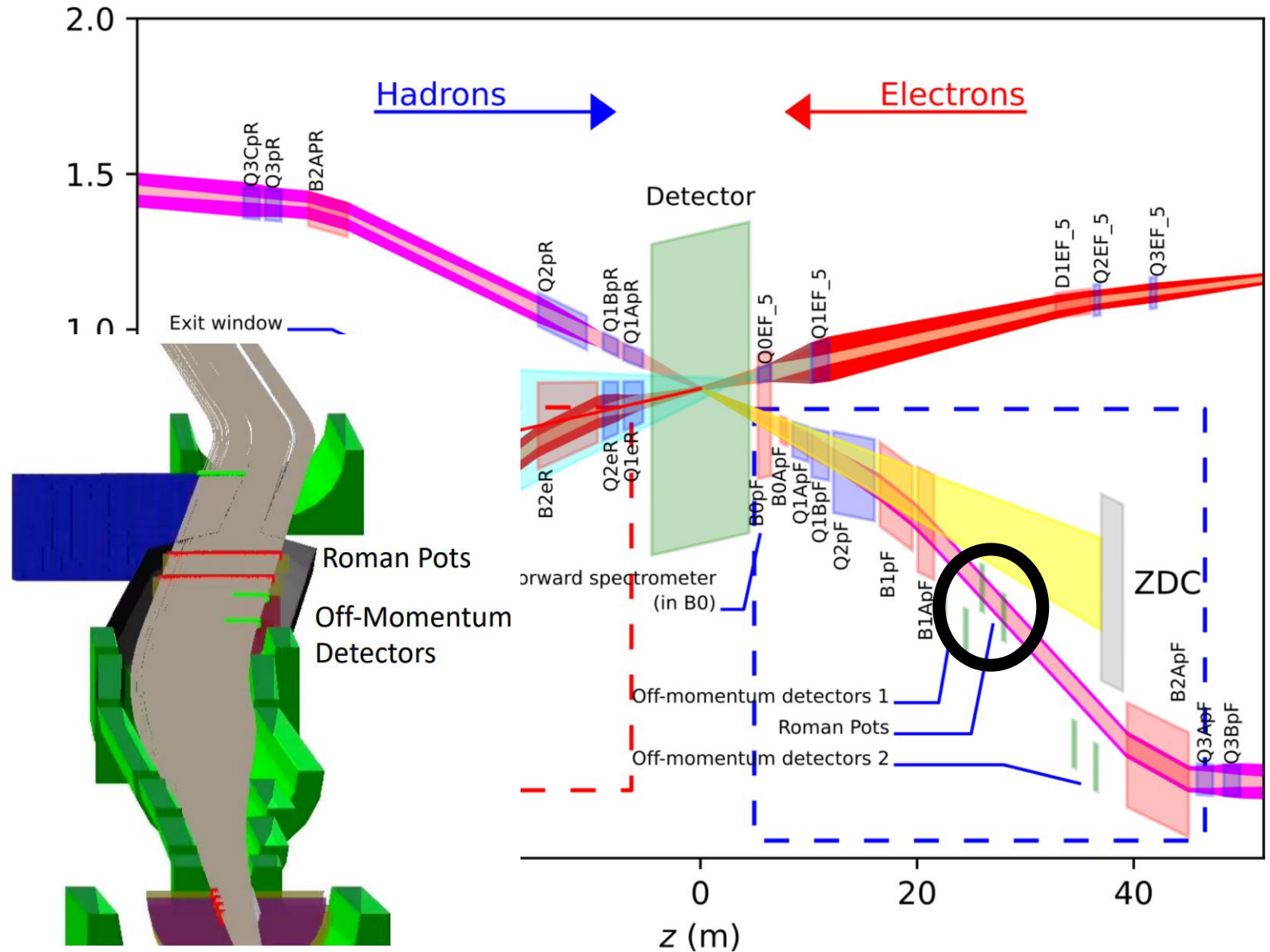
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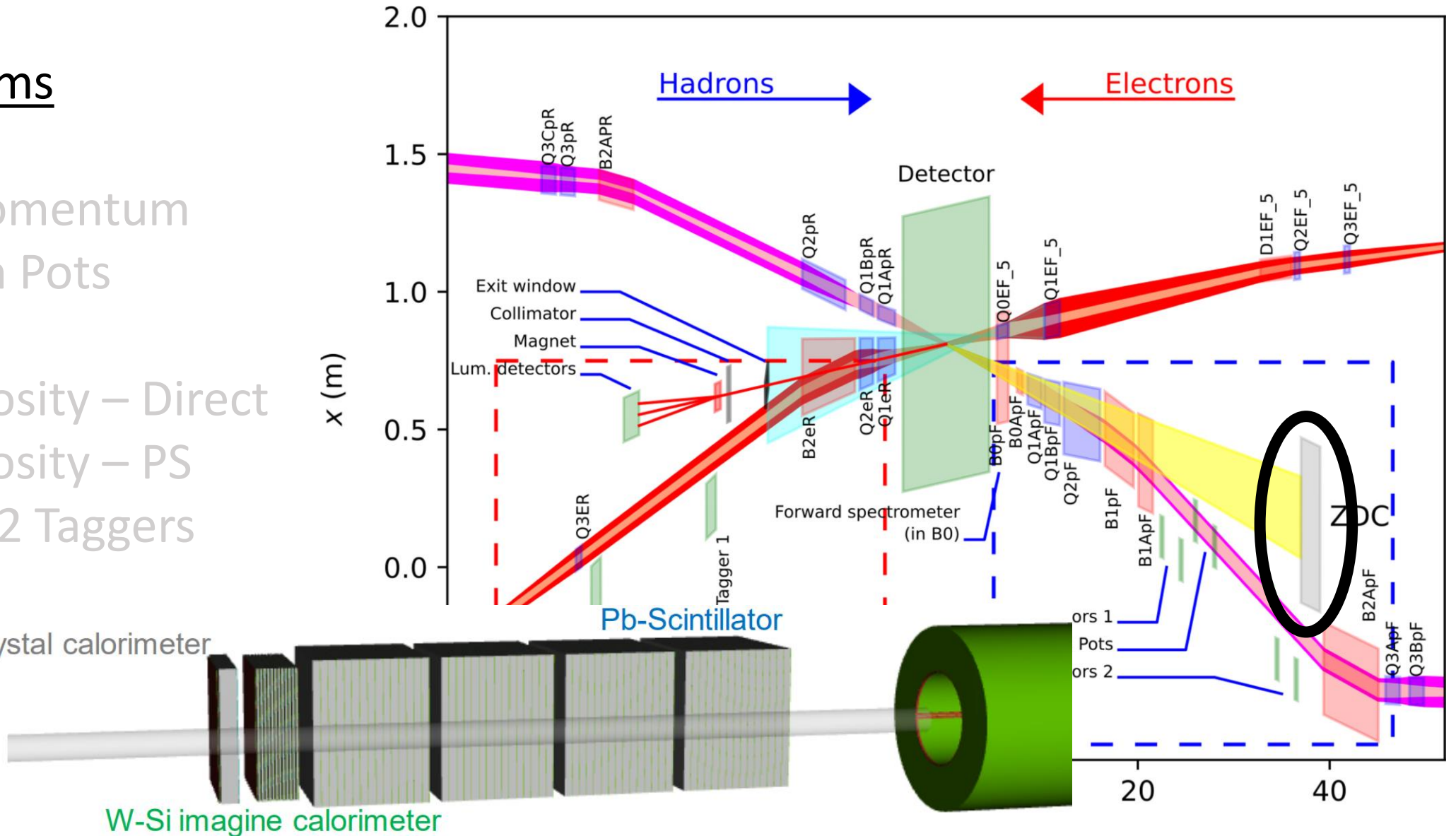


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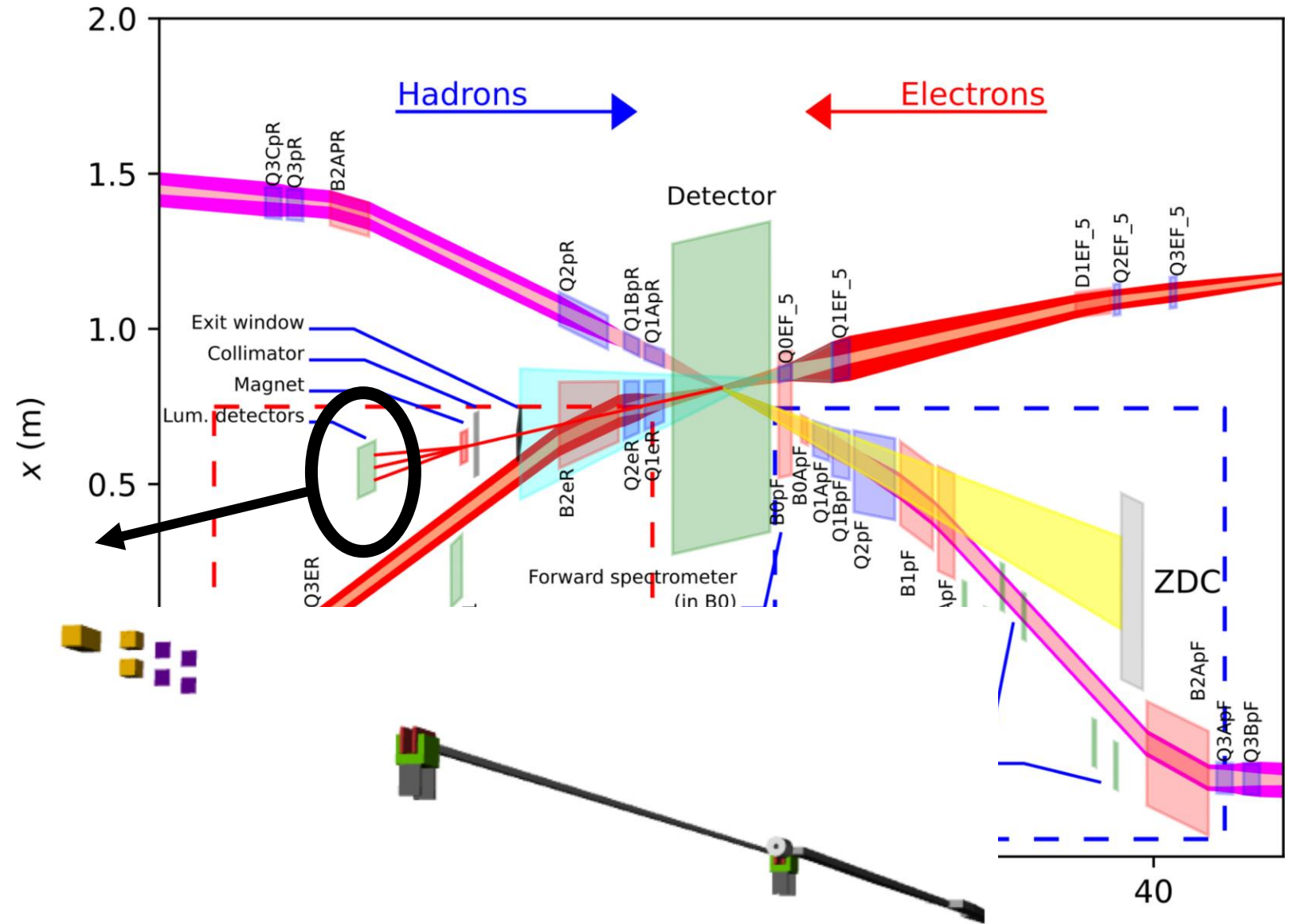
1st Silicon & crystal calorimeter



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Sub-systems

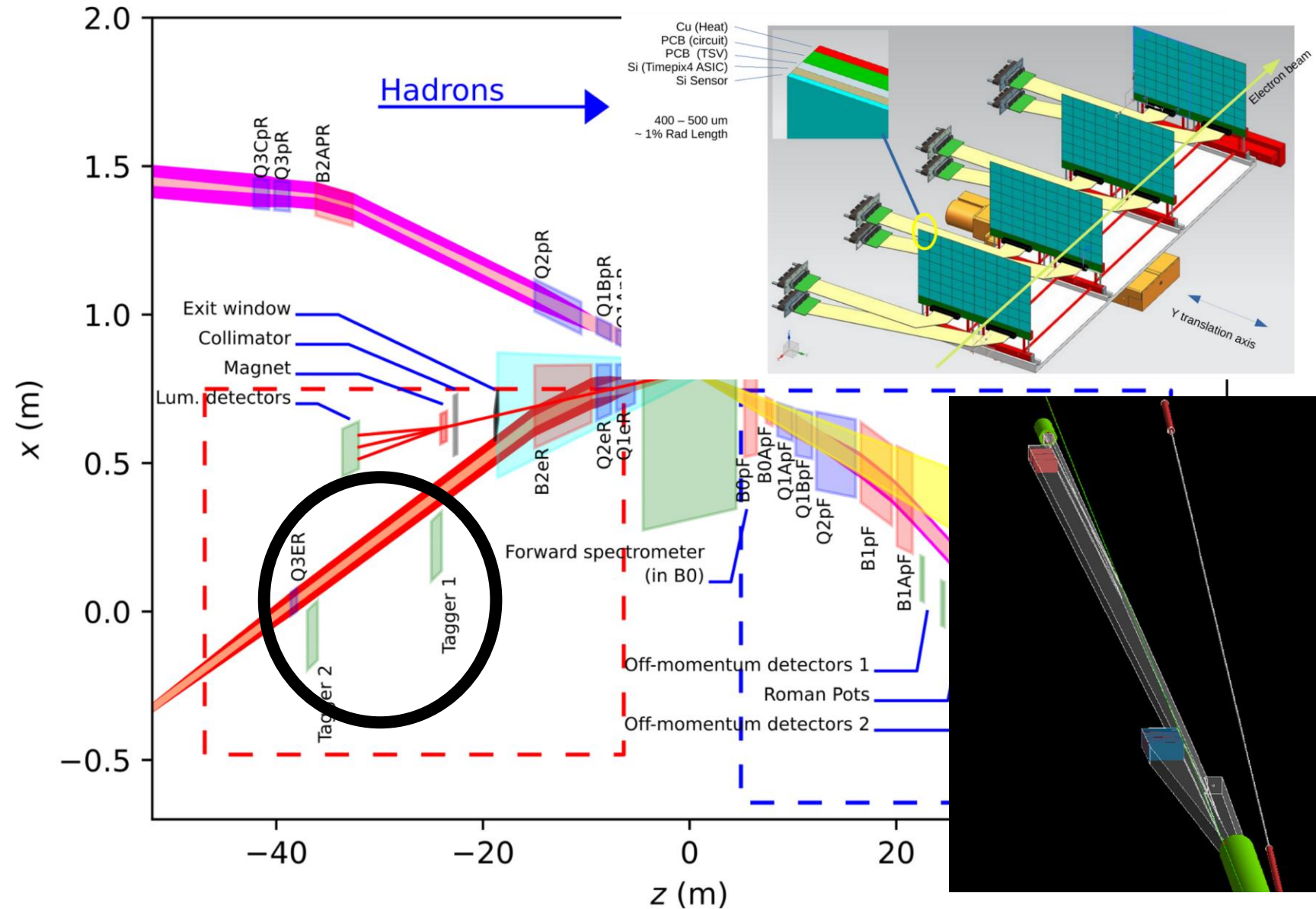
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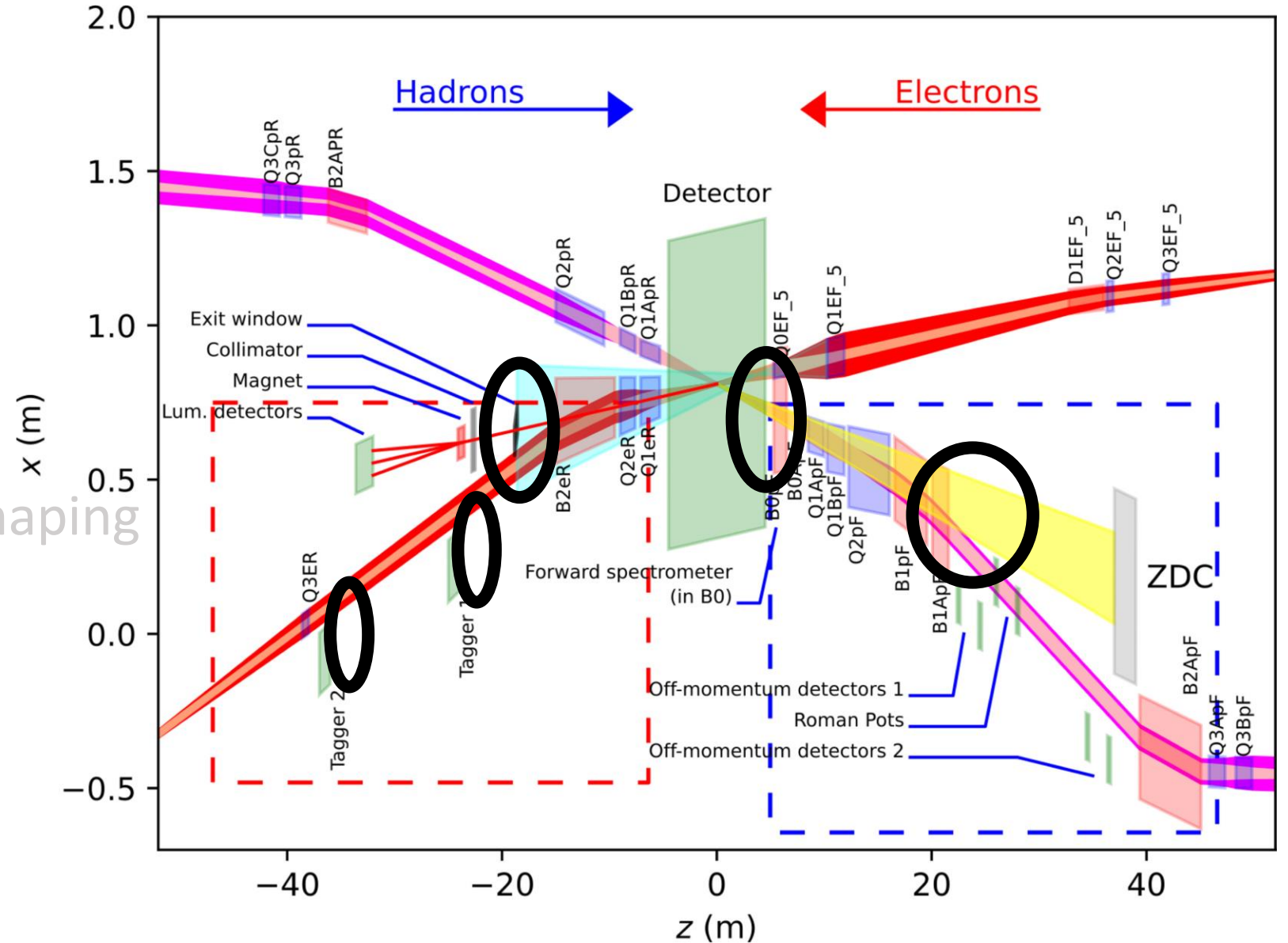


Context – No forest just trees last meeting

Integration

- Vacuum exit windows
 - B0
 - Luminosity
 - ZDC
 - Low-Q2 Taggers
- Additional beamline shaping
 - Roman Pots
 - Off Momentum
 - Low-Q2 taggers

Compromise between detector performance and beam stability/impedance required



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