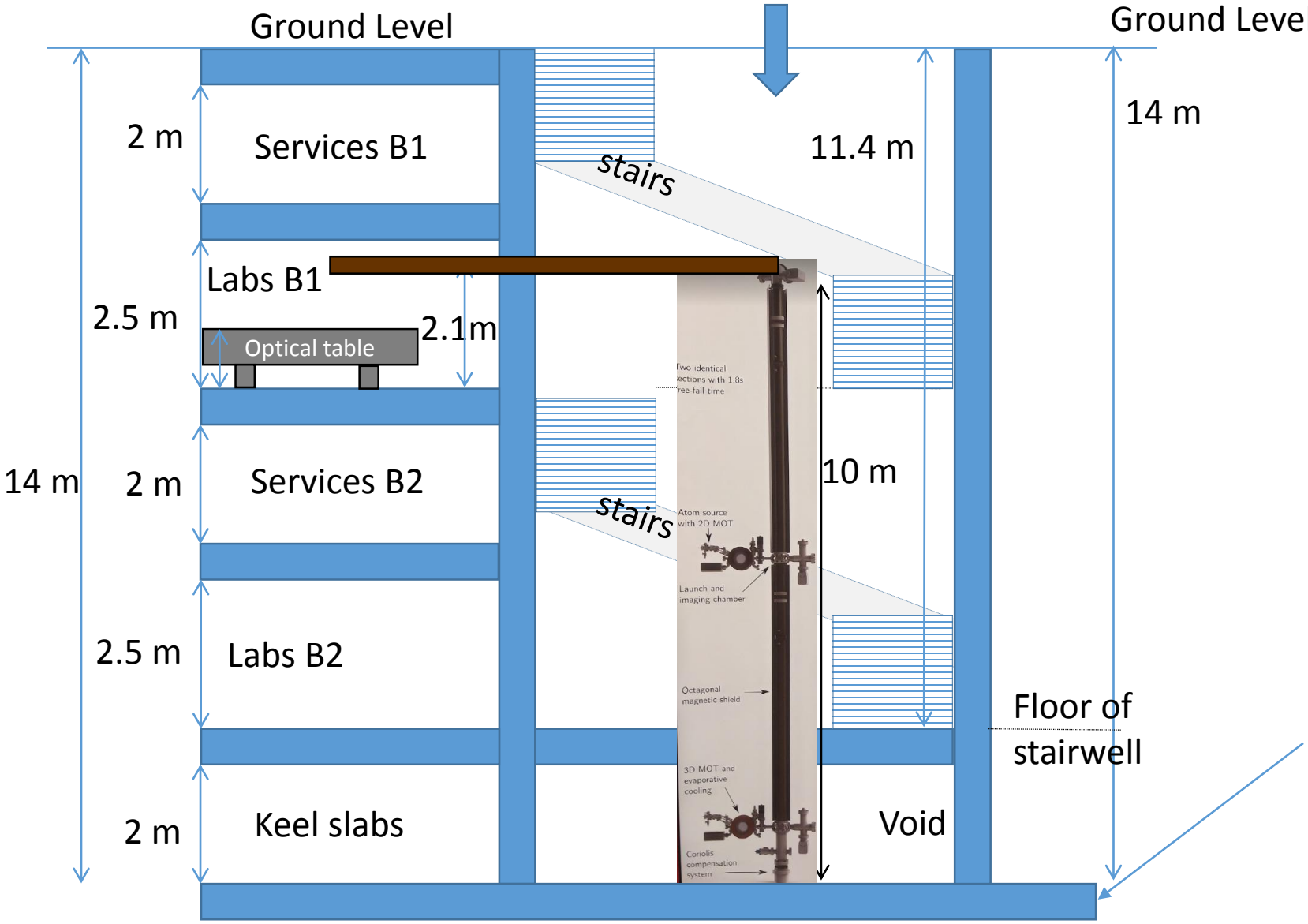
# Sketches for AION

Chris Foot, 21 Jan 2019

# Stairwell in Beecroft (ultralow vibration building): side view




Heights (approx.)

| | |
|---|---|
| 5 floors slabs: | 5x0.6 = 3m |
| 2 labs: | 2x2.5 = 5m |
| 3 interstitial spaces: | 3x2.0 = 6m |
| Void to ground = | 14m |

[ 6 stair flights: 11.4/6 = 1.9m each]

Scale: 1:100 in PowerPoint

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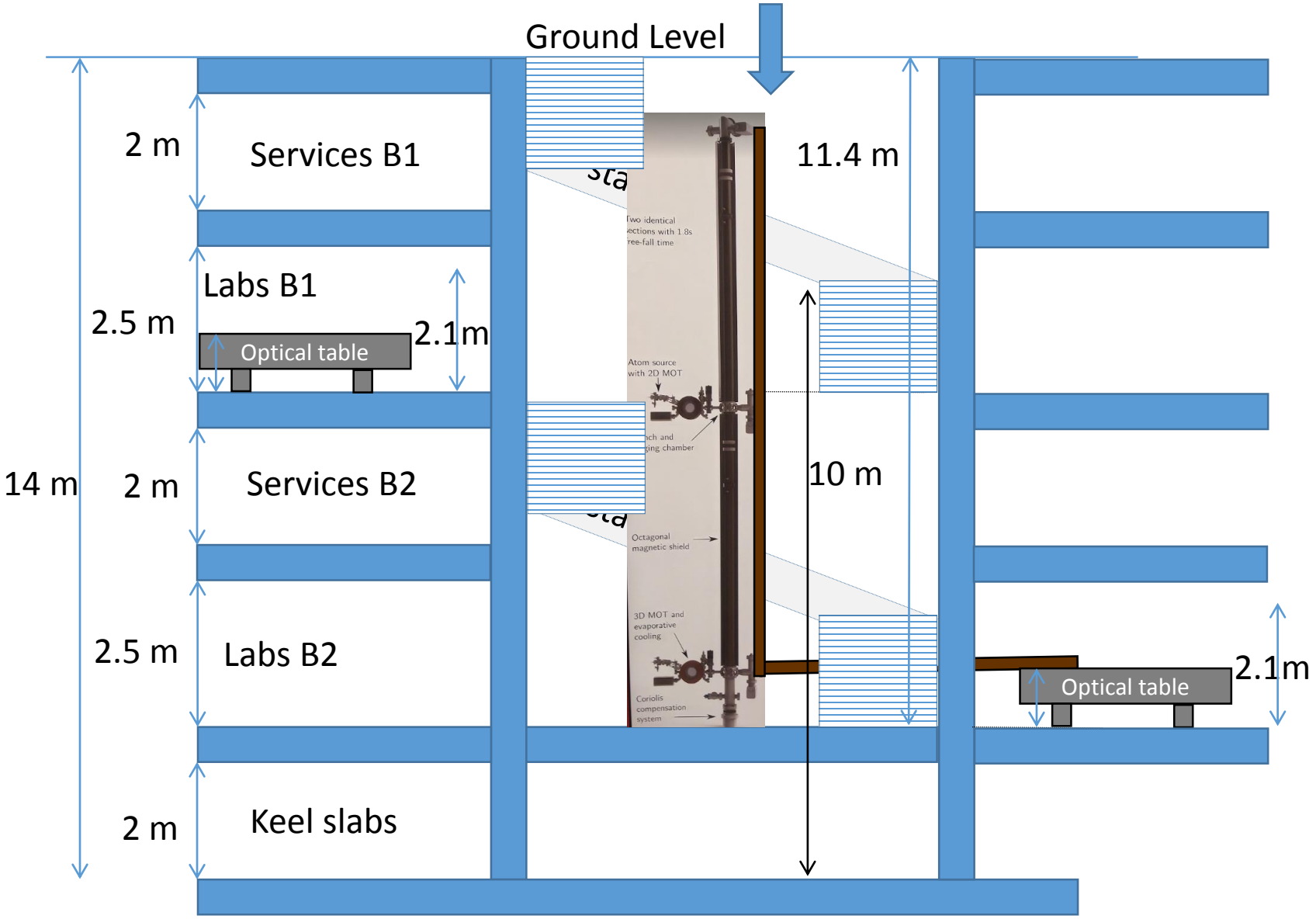


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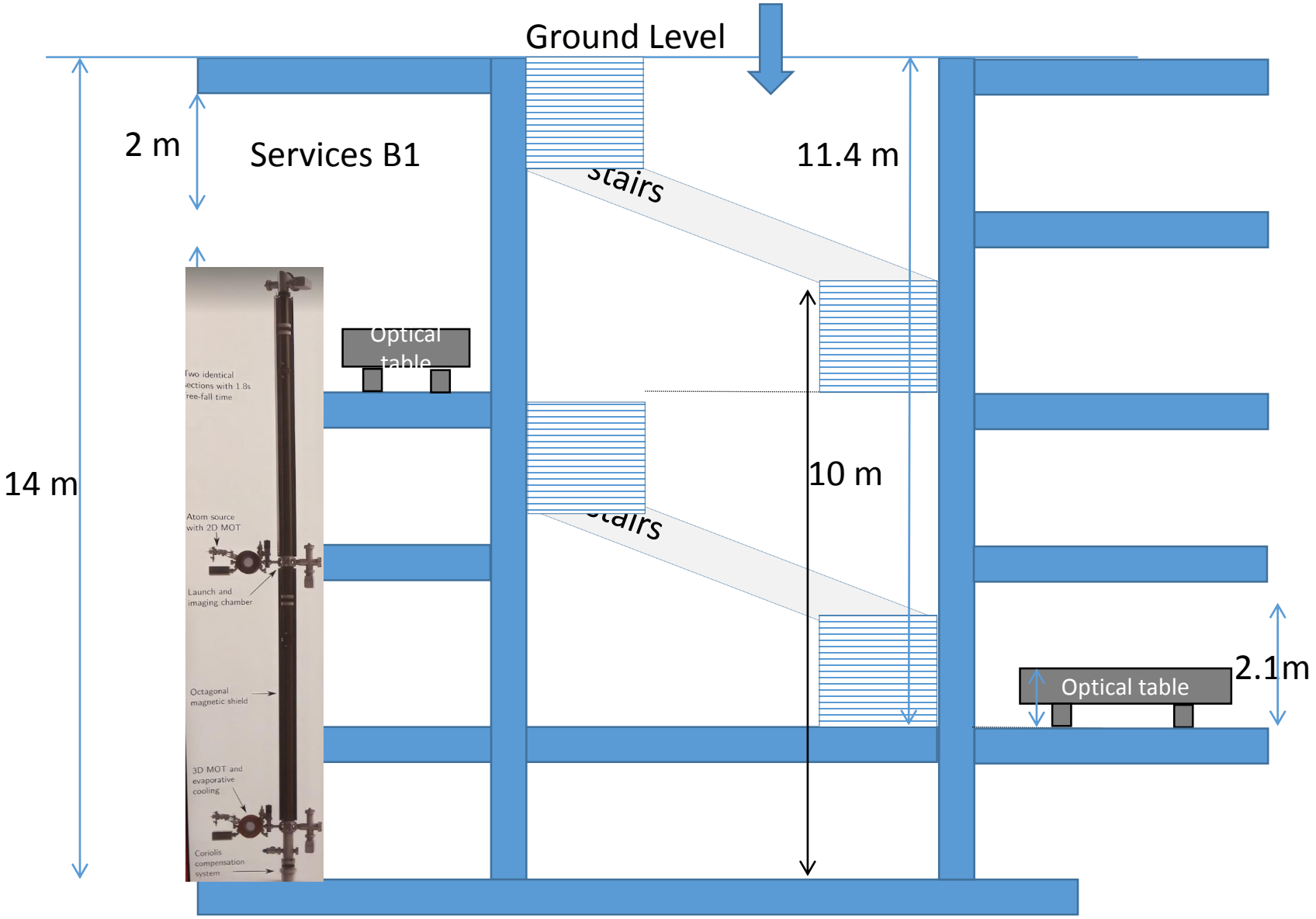


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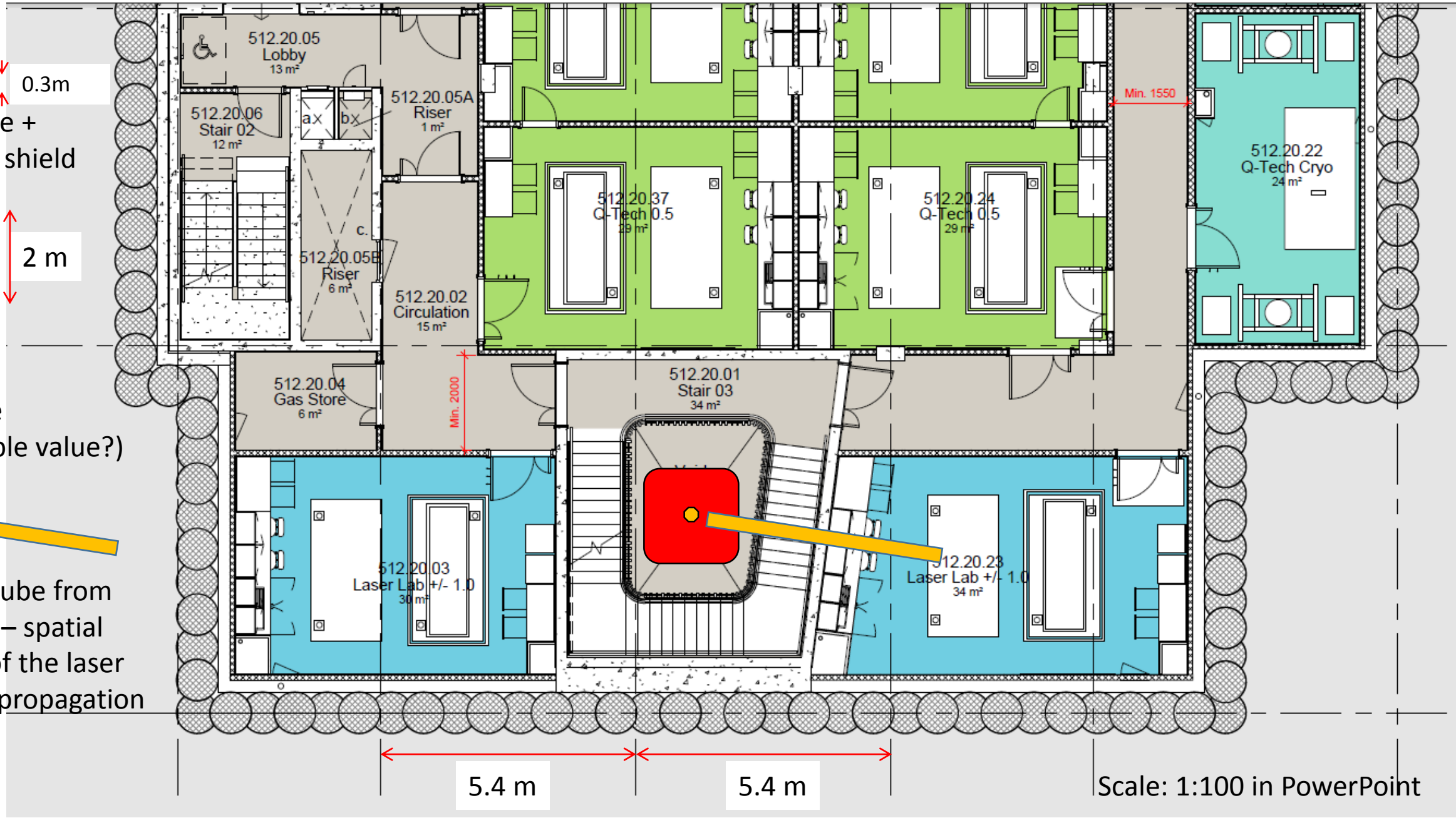
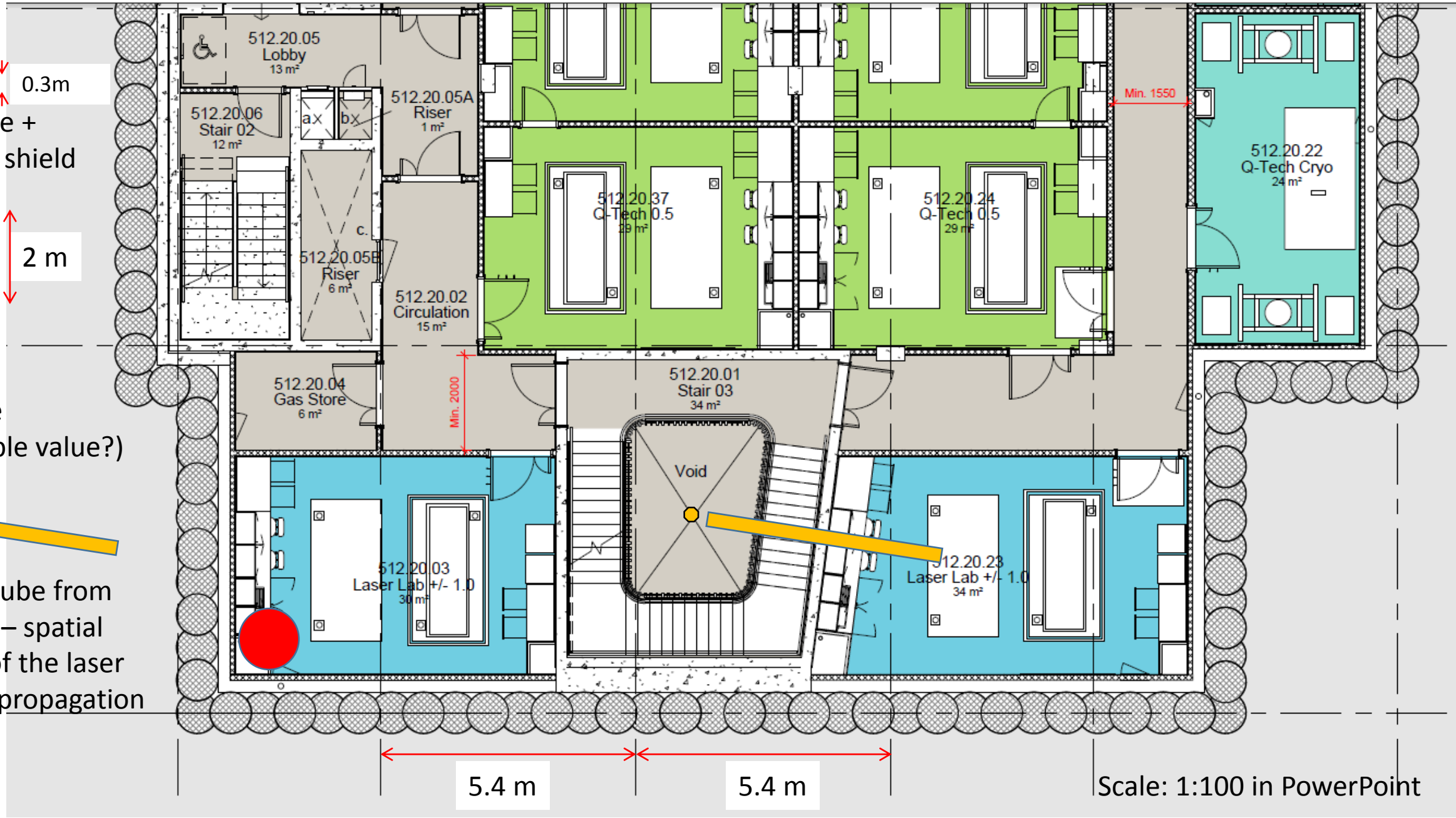
# Beecroft: upper basement labs. Plan view of AION apparatus



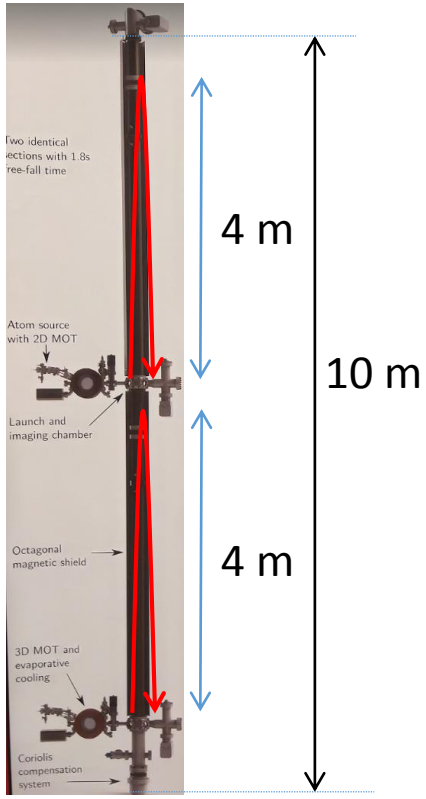
# Beecroft: upper basement labs. Plan view of AION apparatus

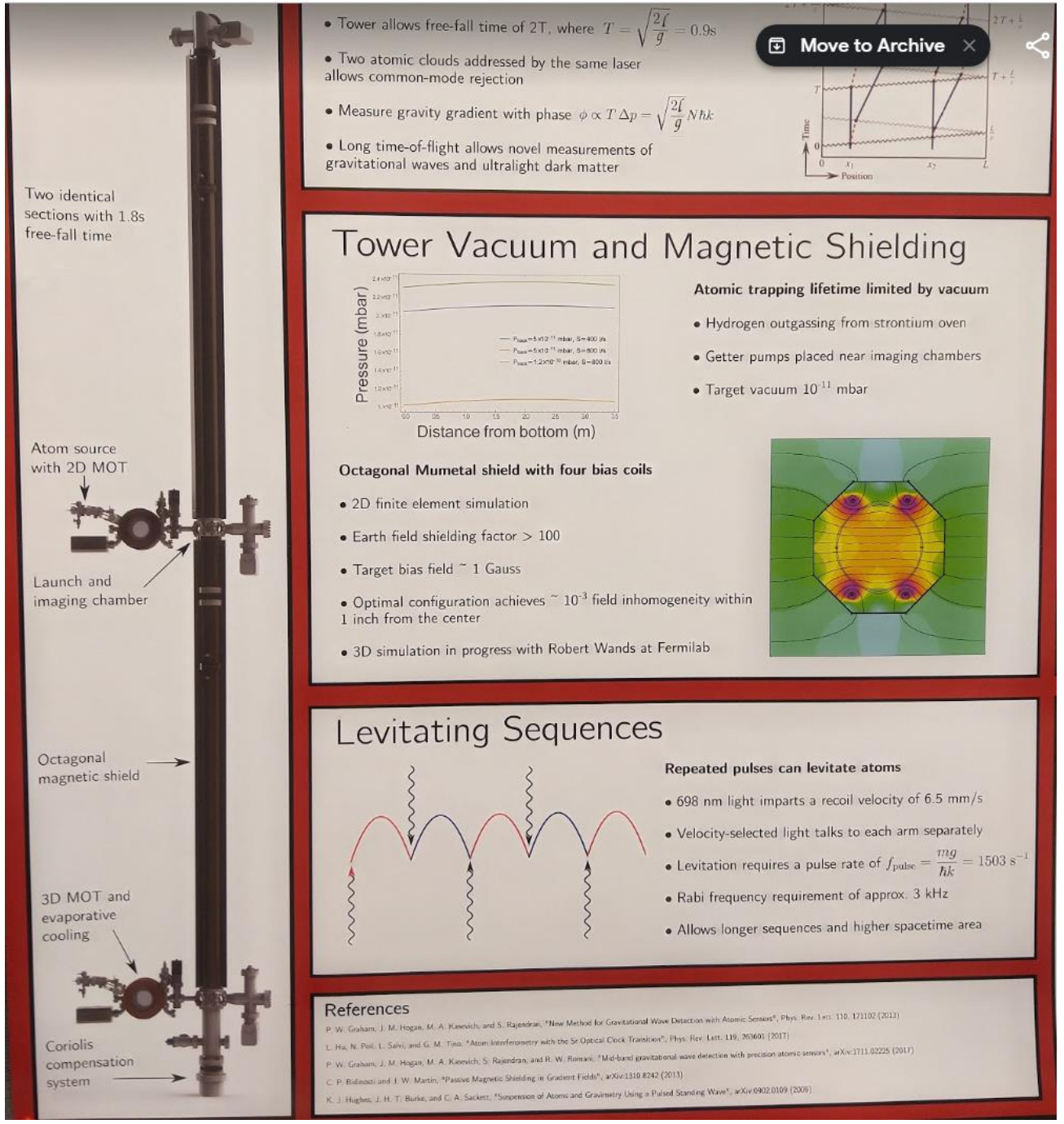



Ultralow vibration

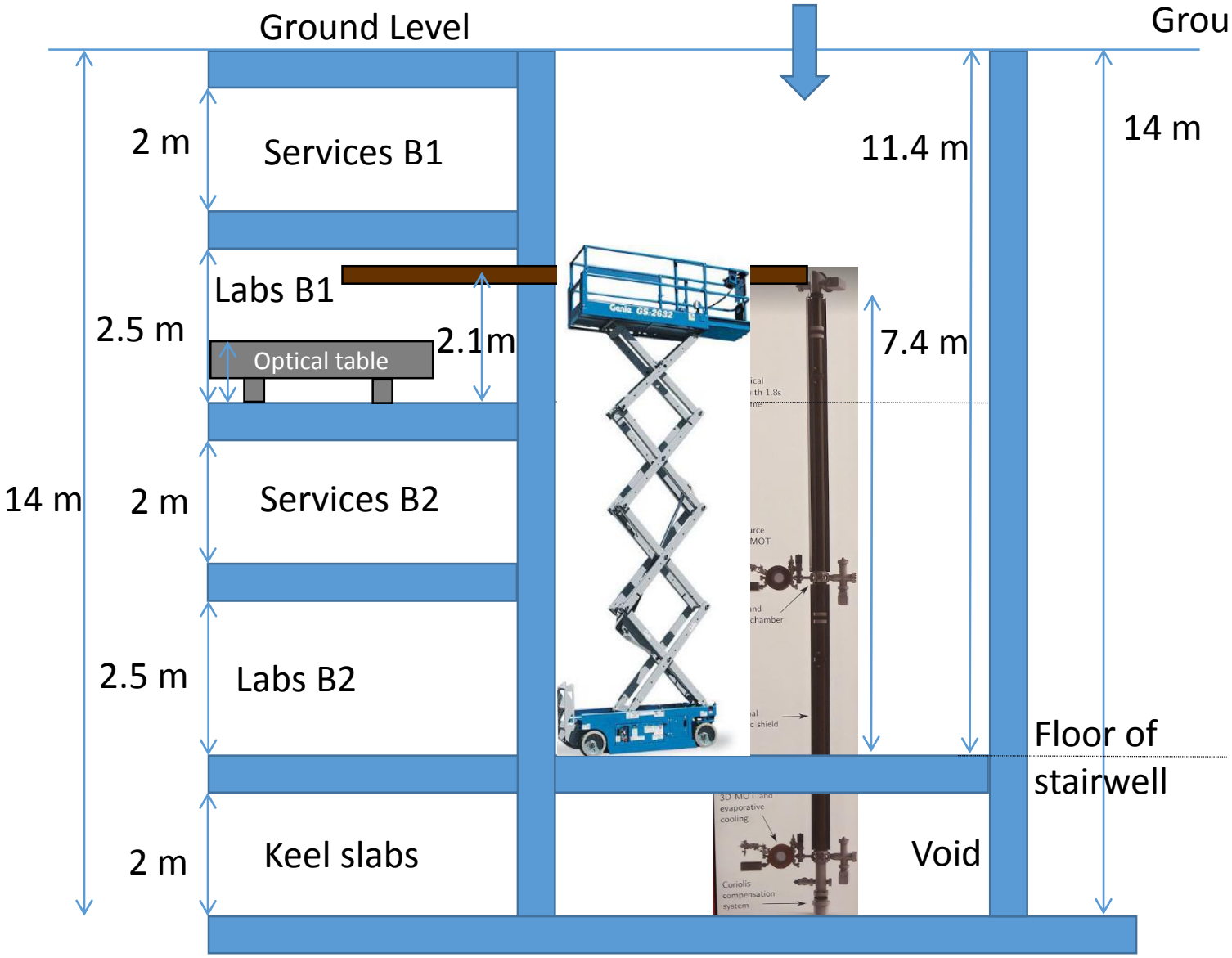
- All plant isolated
- Thick concrete walls

Determine scale of the Stanford poster:
Free-fall time = 0.9 s
Fountain height = 4 m



# Stairwell in Beecroft (ultralow vibration building)




Heights (estimated)

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| 5 floors slabs: | 5x0.6= 3m |
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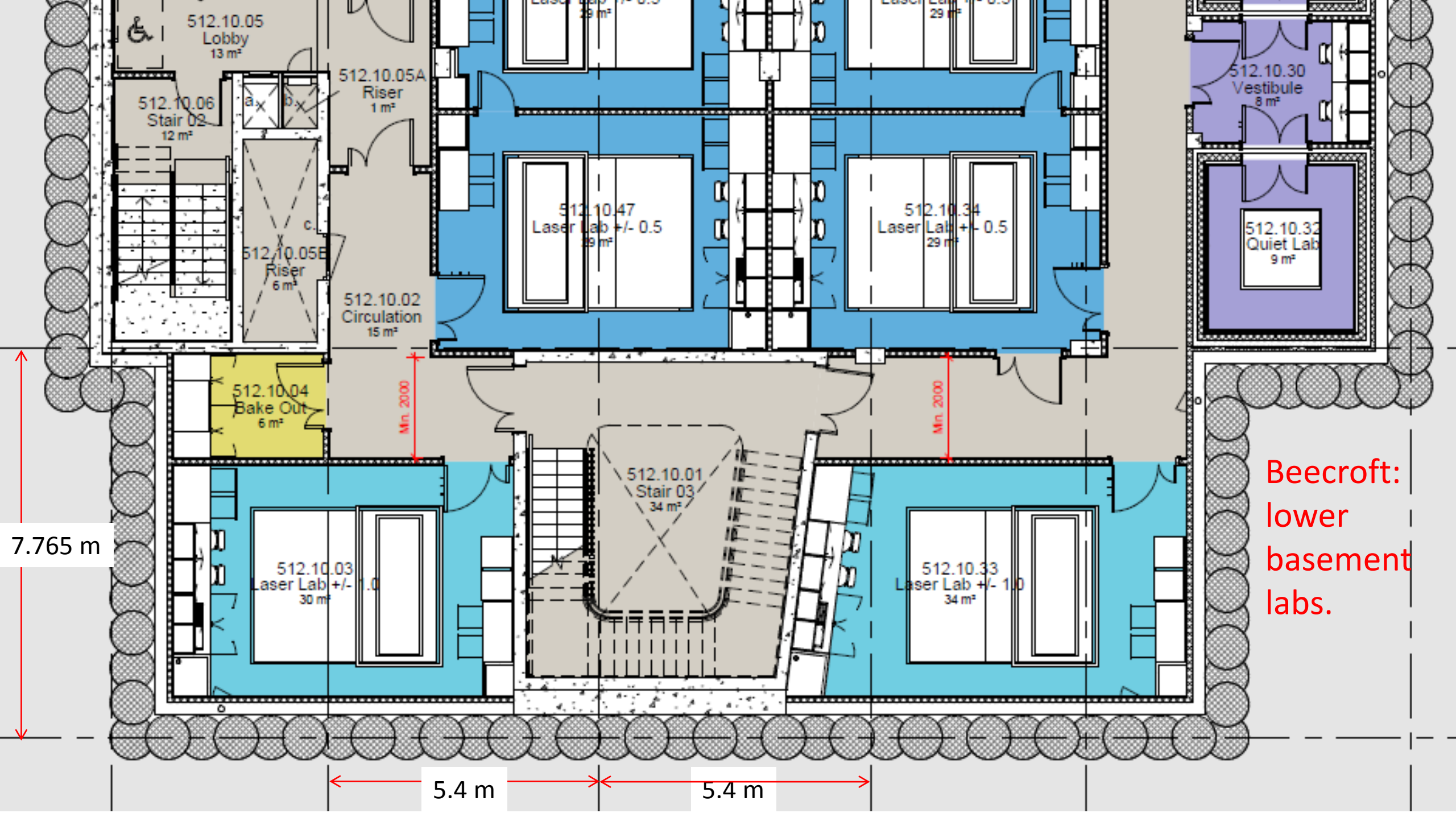
512.10.05
Lobby
13 m²
512.10.06
Stair 02
12 m²
512.10.05A
Riser
1 m²
512.10.05B
Riser
6 m²
512.10.02
Circulation
15 m²
512.10.04
Bake Out
6 m²
512.10.47
Laser Lab +/- 0.5
29 m²
512.10.34
Laser Lab +/- 0.5
29 m²
512.10.30
Vestibule
8 m²
512.10.32
Quiet Lab
9 m²
Min. 2000
Min. 2000
512.10.01
Stair 03
34 m²
512.10.03
Laser Lab +/- 1.0
30 m²
512.10.33
Laser Lab +/- 1.0
34 m²
7.765 m
5.4 m
5.4 m
Beecroft:
lower
basement
labs.