

Mapping status

Magnetic shield meeting
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Contents

Mapping campaigns so far:

- 30/07: on the platform (along $u=0$ and -40cm)
- 31/07: on the floor (along $u=0$ and -40cm), on the platform (along $u=0\text{cm}$)
- 06/08: on the floor (next to the equipment cage)

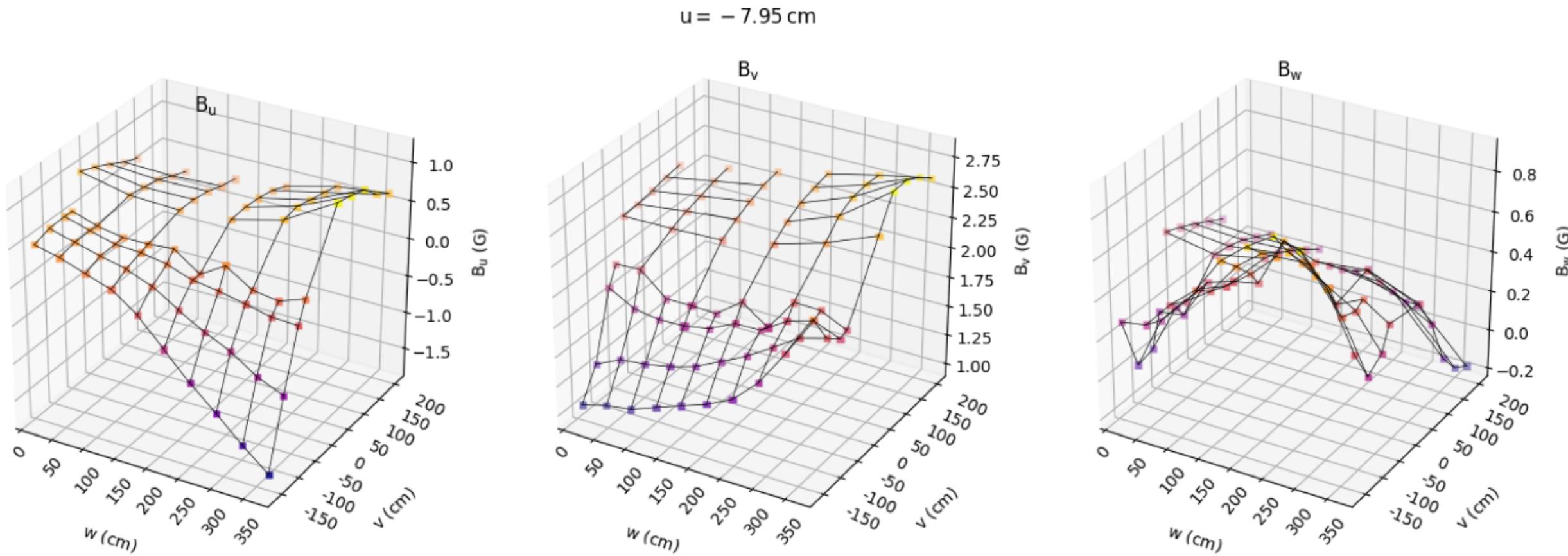
- (Review) Coordinate definition
- Result of the data on the 31/07
- Upgrades of the setup

Coordinate system

- Marked grids with 40cm intervals (on the floor and on the platform)
- The position in the picture on the right: $(u,v,w) = (0,0,0)$
- $v=0$ on the platform, the floor level is $v=-1.882\text{m}$
- On the 31/07:
 - RUN1: on the floor, along $u=0 \text{ cm}$
 - RUN2: on the floor, along $u=40 \text{ cm}$
 - RUN3: on the platform, along $u=0 \text{ cm}$



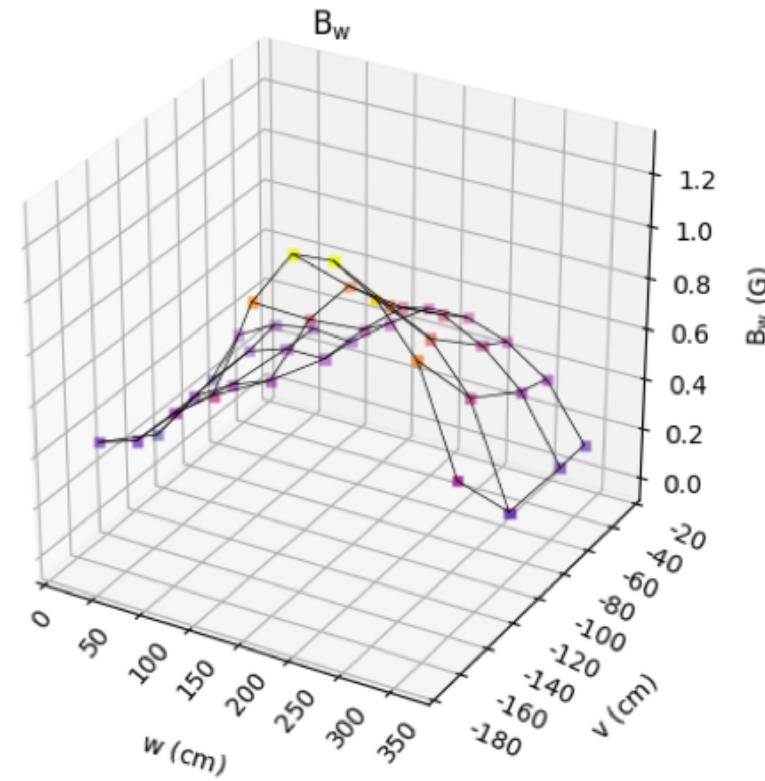
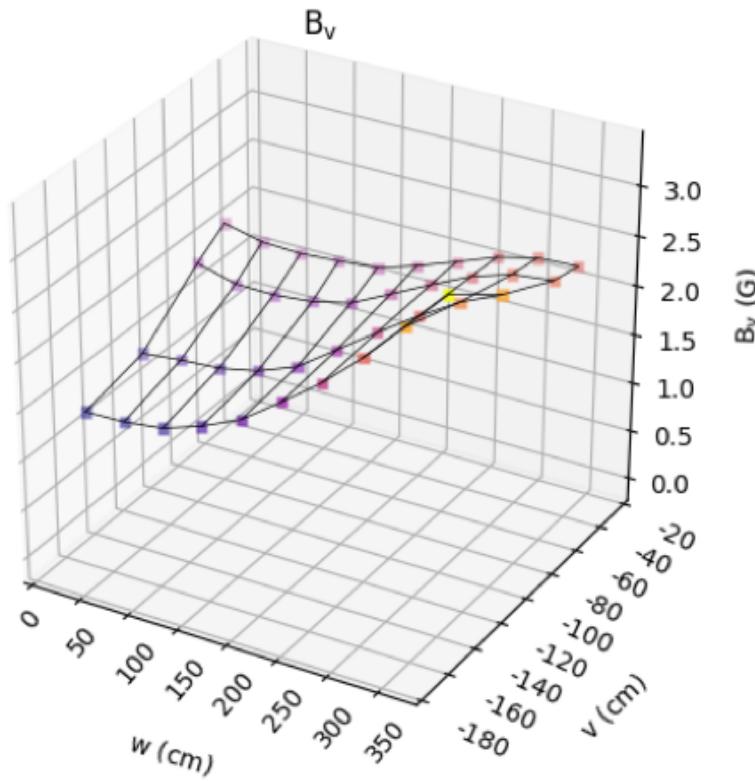
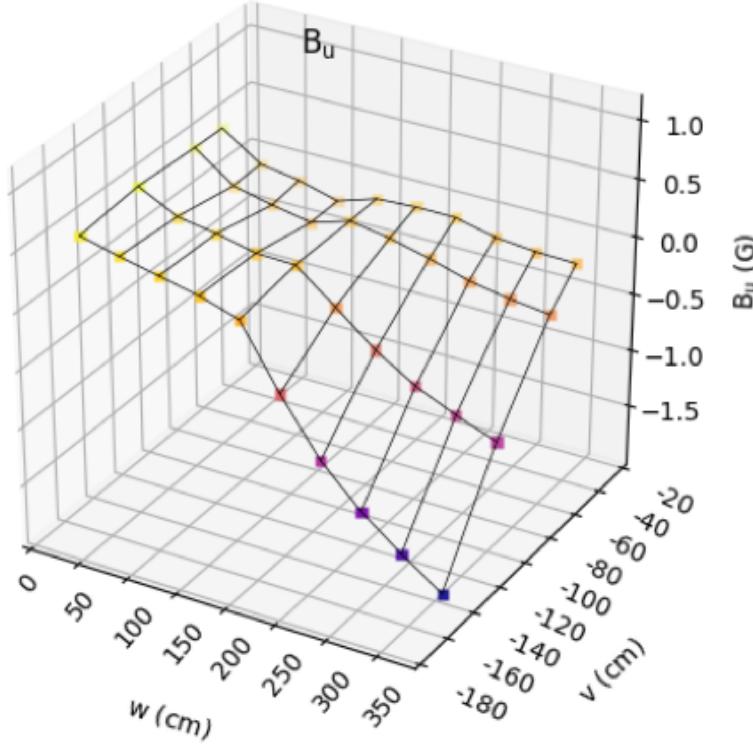
Data $u=-7.95$ cm (RUN1 & RUN3 combined)



- Points with same w/v connected with lines.
(disconnected points: where the probe had an offset of the SCM plate)

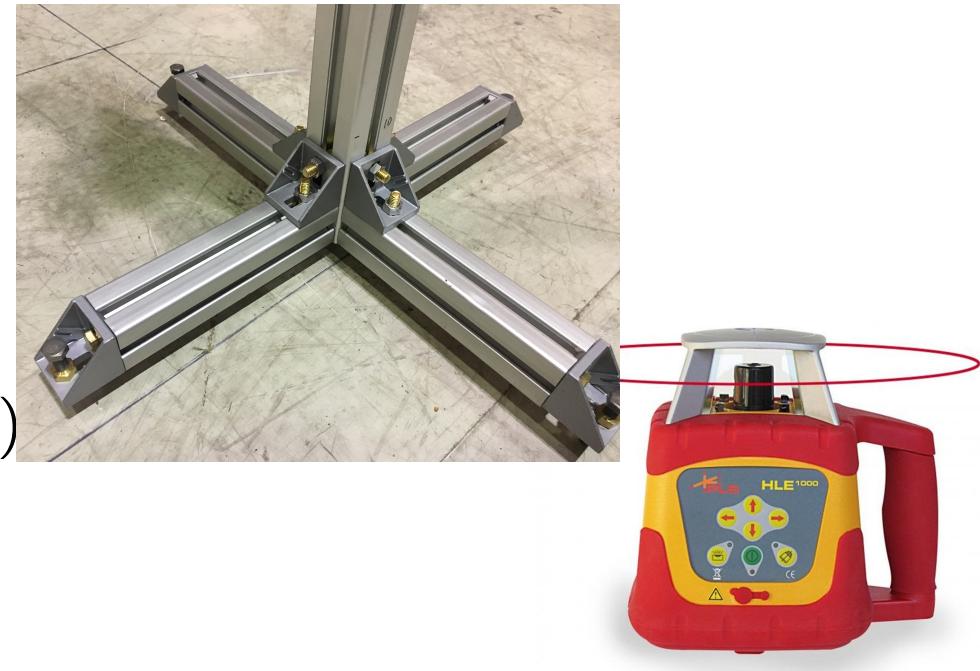
Data $u=-47.95\text{cm}$ (RUN 2)

$u = -47.95\text{ cm}$



Upgrades

- Moved magnetic objects further
- No longer use the cart (the cable was long enough)
- Made the feet of the pole
 - Now fixed with four points (not by planes)
 - Alignment by levelers attached on the side of the pole
 - Make sure that the height doesn't change (<5mm) by marks with a self-leveling rotary laser borrowed from the beamline group
- Replaced all the screws/nuts to brass ones
- The probe is still held by hands
 - No watch while holding!



The magnet removed
Now asking Rick to
drill halls for attach-
ment with screws





Planned mapping volume
Magnetic objects

