

Data in "Magnetic measurements on micron-size samples under high pressure using designed NV centers"

Figure Data.xlsx

Figure	Data Sheets	Notes
Fig1	Fig1C	2x 1-D plot (top panel) + 2x 1-D plot (bottom panel)
Fig2	Fig2a	2-D plot
	Fig2b	2-D plot
	Fig2c	2-D plot
	Fig2d	2-D plot
Fig3	Fig3A	2x 1-D plot
	Fig3B-1	2-D plot
	Fig3B-2	2-D plot
	Fig3B-3	2-D plot
Fig4	Fig4A-1	2-D plot
	Fig4A-2	2-D plot
	Fig4A-3	2-D plot
	Fig4A-4	2-D plot
	Fig4A-5	2-D plot
	Fig4A-6	2-D plot
	Fig4A-7	2-D plot
	Fig4A-8	2-D plot
	Fig4B	1-D plot + specifications of averaging square
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FigS2	FigS2	1-D plot
FigS4	FigS4	1-D plot
FigS6	FigS6-x	2-D plot (top panel, x component)
	FigS6-y	2-D plot (top panel, y component)
	FigS6-z	2-D plot (top panel, z component)
	FigS6-n	2-D plot (top panel, norm)
	FigS6-xf	2-D plot (top panel, filtered x component)
	FigS6-yf	2-D plot (top panel, filtered y component)
	FigS6-zf	2-D plot (top panel, filtered z component)
	FigS6-nf	2-D plot (top panel, filtered norm)
FigS9	FigS9A-x	2-D plot (x component)
	FigS9A-y	2-D plot (y component)
	FigS9A-z	2-D plot (z component)
	FigS9B-x	2-D plot (x component)
	FigS9B-y	2-D plot (y component)
	FigS9B-z	2-D plot (z component)
	FigS9C-x	2-D plot (x component)
	FigS9C-y	2-D plot (y component)
	FigS9C-z	2-D plot (z component)
	FigS9D-x	2-D plot (x component)

	FigS9D-y	2-D plot (y component)
	FigS9D-z	2-D plot (z component)
FigS10	FigS10A-mt	2-D plot (top left panel)
	FigS10A-mb	2-D plot (bottom left panel)
	FigS10A-exp	2-D plot (right panel)
	FigS10B-mt	2-D plot (top left panel)
	FigS10B-mb	2-D plot (bottom left panel)
	FigS10B-exp	2-D plot (right panel)
FigS11	FigS11A-x	2-D plot (x component)
	FigS11A-y	2-D plot (y component)
	FigS11A-z	2-D plot (z component)
	FigS11B-x	2-D plot (x component)
	FigS11B-y	2-D plot (y component)
	FigS11B-z	2-D plot (z component)
	FigS11C-x	2-D plot (x component)
	FigS11C-y	2-D plot (y component)
	FigS11C-z	2-D plot (z component)
	FigS11D-x	2-D plot (x component)
	FigS11D-y	2-D plot (y component)
	FigS11D-z	2-D plot (z component)
FigS12	FigS12A-x	2-D plot (x component)
	FigS12A-y	2-D plot (y component)
	FigS12A-z	2-D plot (z component)
	FigS12B-x	2-D plot (x component)
	FigS12B-y	2-D plot (y component)
	FigS12B-z	2-D plot (z component)
	FigS12C-x	2x 1-D plot (x component)
	FigS12C-y	2x 1-D plot (y component)
	FigS12C-z	2x 1-D plot (z component)
FigS13	FigS13B	2-D plot
	FigS13C	2x 1-D plot
FigS14	FigS14C-1x	2-D plot (x component)
	FigS14C-1y	2-D plot (y component)
	FigS14C-1z	2-D plot (z component)
	FigS14C-1n	2-D plot (norm)
	FigS14C-2x	2-D plot (x component)
	FigS14C-2y	2-D plot (y component)
	FigS14C-2z	2-D plot (z component)
	FigS14C-2n	2-D plot (norm)
	FigS14C-3x	2-D plot (x component)
	FigS14C-3y	2-D plot (y component)
	FigS14C-3z	2-D plot (z component)
	FigS14C-3n	2-D plot (norm)

FigS15	FigS15-1	2-D plot
	FigS15-2	2-D plot
	FigS15-3	2-D plot
	FigS15-4	2-D plot
	FigS15-5	2-D plot
	FigS15-6	2-D plot
	FigS15-7	2-D plot
	FigS15-8	2-D plot
	FigS15-9	2-D plot
	FigS15-10	2-D plot
	FigS15-11	2-D plot
	FigS15-12	2-D plot
	FigS15-13	2-D plot
	FigS15-14	2-D plot
	FigS15-15	2-D plot
	FigS15-16	2-D plot
	FigS15-17	2-D plot
	FigS15-18	2-D plot
	FigS15-19	2-D plot
	FigS15-20	2-D plot
	FigS15-21	2-D plot
	FigS15-22	2-D plot
	FigS15-23	2-D plot
	FigS15-24	2-D plot
FigS16	FigS16	6x 1-D plot

### Raw Data

- Iron/ESR Maps contains the raw ESR maps for the Iron experiment. Iron/Pruby is the list of pressure values corresponding to each ESR map, and Iron/size\_pix gives the spatial size corresponding to each pixel.
- MgB2/ESR Maps contains the raw ESR maps for the MgB2 experiment. MgB2/T is the list of temperature values corresponding to each ESR map, and MgB2/size\_pix gives the spatial size corresponding to each pixel.

### Matlab Codes

#### PlotIronData.m:

Code used to open the raw data of the Iron experiments and extract the ESR for each pixel.

#### PlotMgB2Data.m:

Code used to open the raw data of the MgB2 experiments and extract the ESR for each pixel.

#### SimulatedIronMagneticField.m (requires SphereField.m, CarttoPol.m, PoltoCart.m):

Code used to calculate and plot the magnetic field created by an iron sphere, at a 2D plane of observation.

