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High-frequency EPR on high-spin transitions-metal sites

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Appendix B

The revised mount of the modulation coil of the 275.7 GHz continuous-wave probe head

After repeated use of the continuous-wave probe head of the 275.7 GHz spectrometer, the quality of the spectra would deteriorate. Particularly at temperatures below 10 K the stability of the EPR signal became poor. Upon inspection of the probe head it was found that the rexolite part of the modulation coil mount was cracked. Therefore the modulation coil mount described in Chapter 2 was replaced by the mount shown in Figure B.1.

B. The revised mount of the modulation coil of the 275.7 GHz continuous-wave probe head

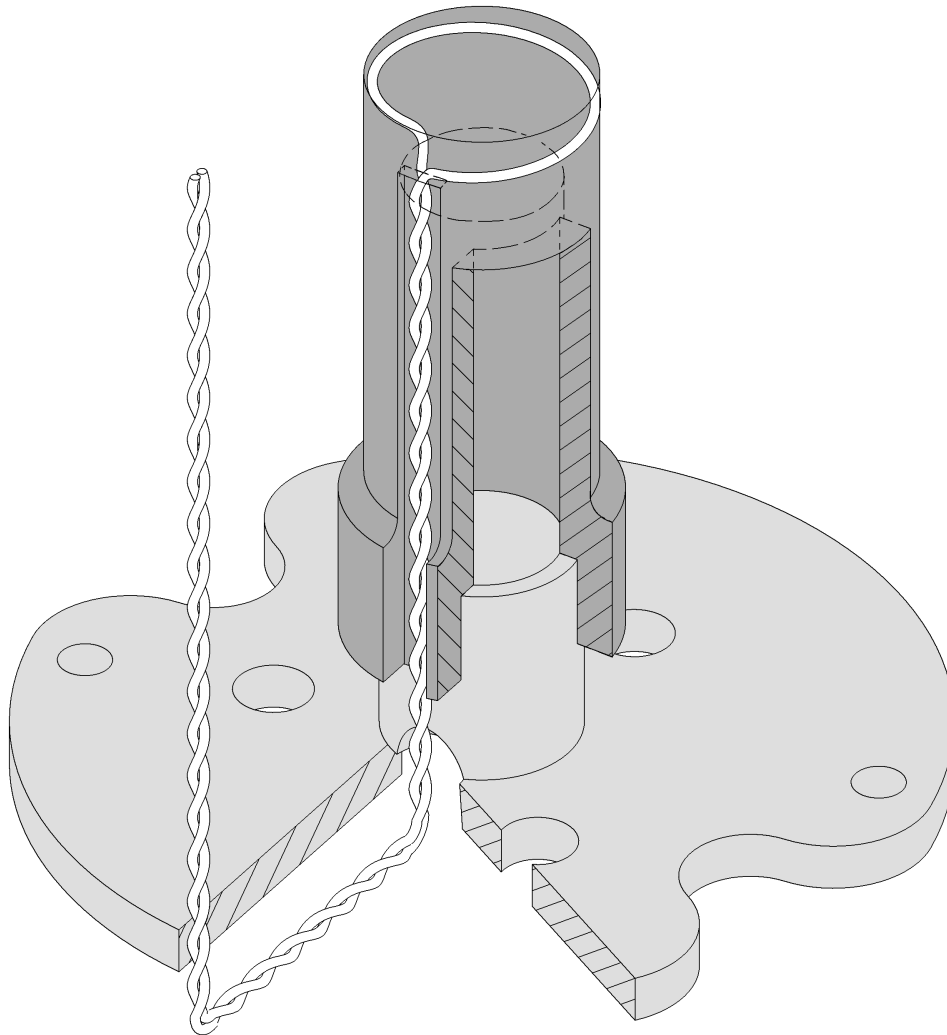


Figure B.1: Technical drawing of the revised modulation coil mount. Light gray: Bronze. The bottom plate is attached to the end of the probe head. Dark gray: Stycast. The modulation coil is encased in Stycast. For clarity only one turn is depicted.