



Universiteit  
Leiden  
The Netherlands

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

Mathies, G.

### Citation

Mathies, G. (2012, March 1). *High-frequency EPR on high-spin transitions-metal sites*. *Casimir PhD Series*. Retrieved from <https://hdl.handle.net/1887/18552>

Version: Not Applicable (or Unknown)

License: [Leiden University Non-exclusive license](#)

Downloaded from: <https://hdl.handle.net/1887/18552>

**Note:** To cite this publication please use the final published version (if applicable).

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/18552> holds various files of this Leiden University dissertation.

**Author:** Mathies, Guinevere

**Title:** High-frequency EPR on high-spin transition-metal sites

**Issue Date:** 2012-03-01

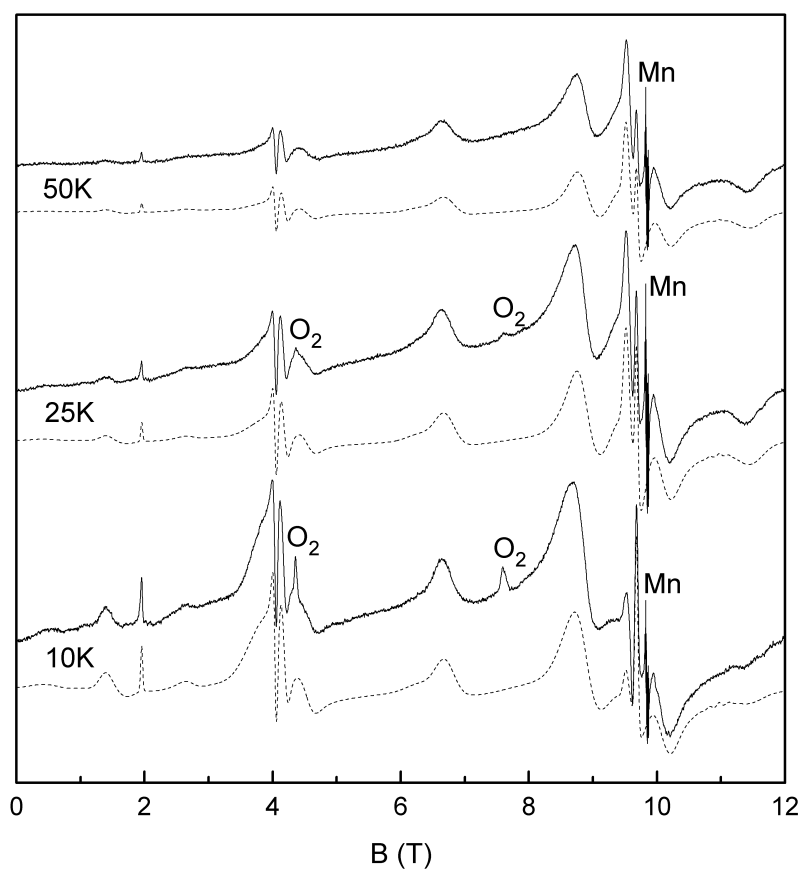
## Appendix A

# Continuous-wave 275.7 GHz EPR spectra of rubredoxin from *Pyrococcus furiosus* and *Megasphaera elsdenii*

Figure A.1 and A.2 show the 275.7 GHz cw EPR spectra of frozen solutions of rubredoxin originating from *P. furiosus* and *M. elsdenii*.

A. Continuous-wave 275.7 GHz EPR spectra of rubredoxin from *Pyrococcus furiosus* and *Megasphaera elsdenii*

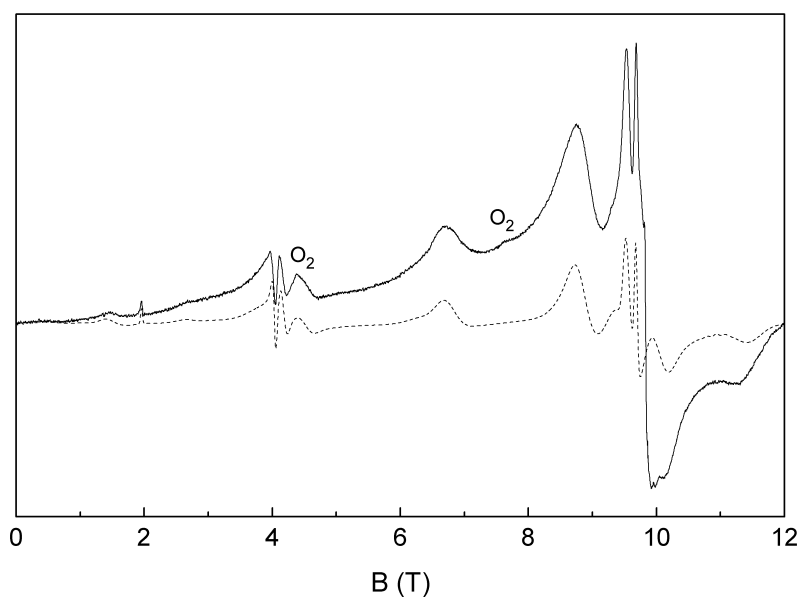
---



**Figure A.1:** The 275.7 GHz cw EPR spectra of a 10 mM frozen solution of the protein rubredoxin from *P. furiosus* at three temperatures. Experimental conditions: modulation amplitude: 3 mT, time constant: 1 s, scan rate: 2 mT/s, microwave power: 1  $\mu$ W. The solid lines are the experimentally observed spectra and the dashed lines are the spectra calculated by EasySpin with the parameters given in Table 2.1.

A. Continuous-wave 275.7 GHz EPR spectra of rubredoxin from *Pyrococcus furiosus* and *Megasphaera elsdenii*

---



**Figure A.2:** The 275.7 GHz cw EPR spectrum of a 10 mM frozen solution of the protein rubredoxin from *M. elsdenii* at 25 K. Experimental conditions: modulation amplitude: 3 mT, time constant: 1 s, scan rate: 2 mT/s, microwave power: 1  $\mu$ W. The solid line is the experimentally observed spectrum and the dashed line is the spectrum calculated by EasySpin with the parameters given in Table 2.1.

A. Continuous-wave 275.7 GHz EPR spectra of rubredoxin from  
*Pyrococcus furiosus* and *Megasphaera elsdenii*

---