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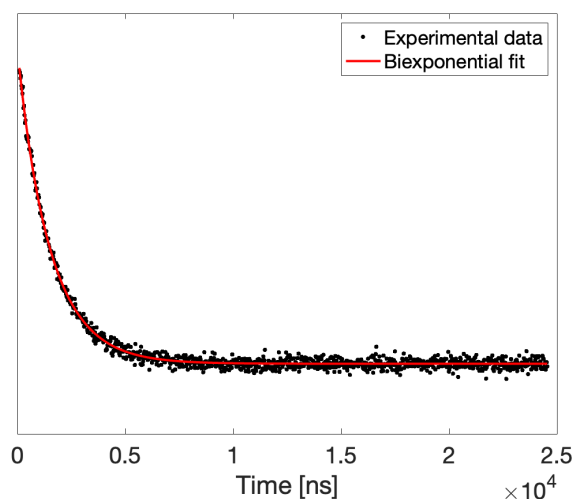
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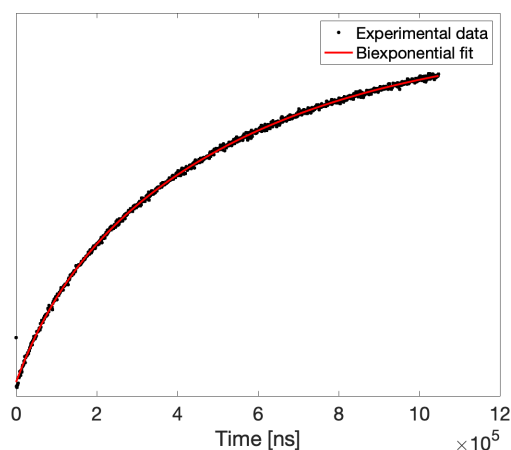
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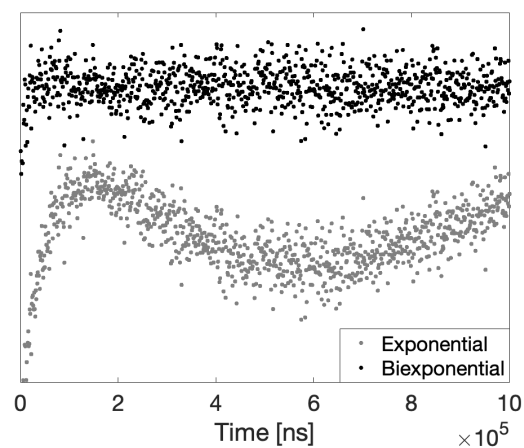
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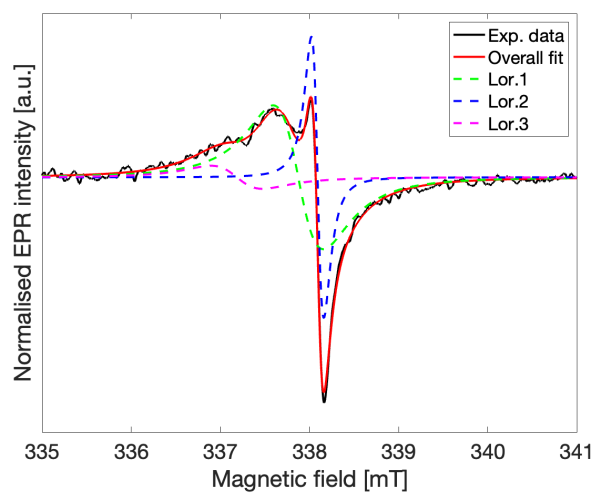
**Figure S1:**  $T_2$  relaxation decay curve measured via the Hahn-echo sequence in Q band and fit with a biexponential function for CN-CMB.



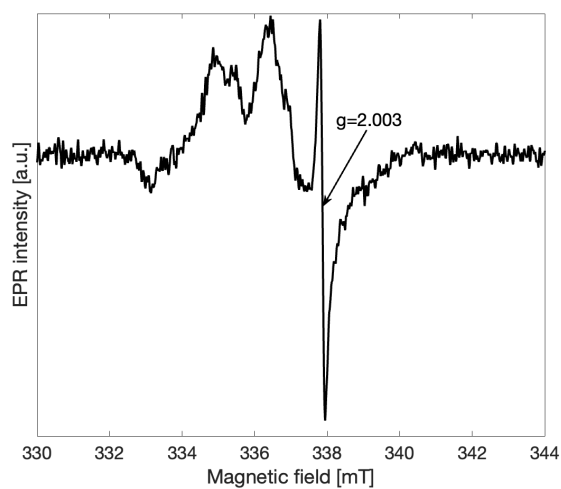
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**Figure S3:** Example of residual analysis after subtraction of fits via either exponential or biexponential functions for  $T_1$  relaxation data.



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**Figure S5:** EPR spectrum of gCN recorded after adding  $\text{H}_2\text{O}_2$ , 3%, aqueous, to the sample tube and subsequently drying with nitrogen gas.