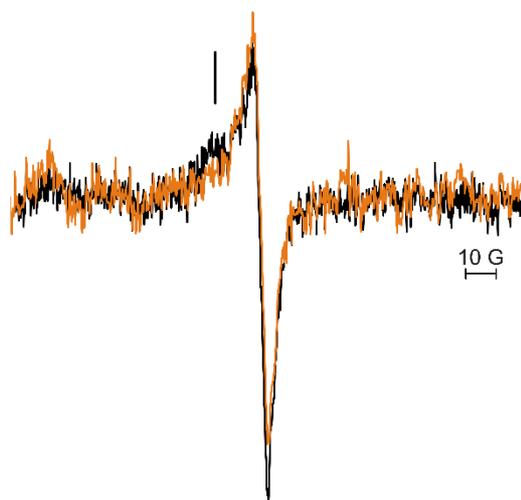


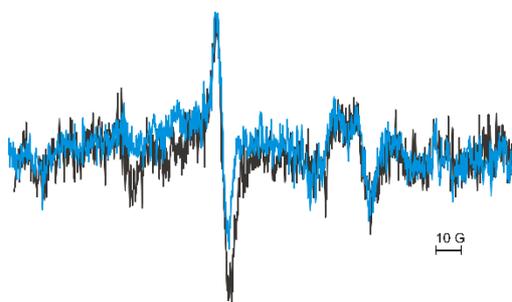
## Supplementary Information for: Defects of thin CaO(001) on Mo(001): an EPR spectroscopic perspective

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**Fig. S1:** Comparison of the EPR-spectrum of the 15 ML CaO film grown at room temperature with Ca deposition rate of 2.4 Å/min (black trace) and the spectrum resulting after subtraction of the CaO film prepared with 3.6 Å/min Ca deposition rate (orange trace).



**Fig. S2:** EPR spectra of the 15 ML thick CaO film (Ca deposition rate of 2.4 Å/min) after first annealing to 1030 K (black trace) and subsequent annealing to 1100 K (blue trace)