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Supporting information for article:

**ASAXS measurements on ferritin and apoferritin at the bioSAXS
beamline P12 (PETRA III, DESY)**

**D. C. F. Wieland, M. A. Schroer, A. Yu. Gruzinov, C. E. Blanchet, C. M. Jeffries
and D. I. Svergun**

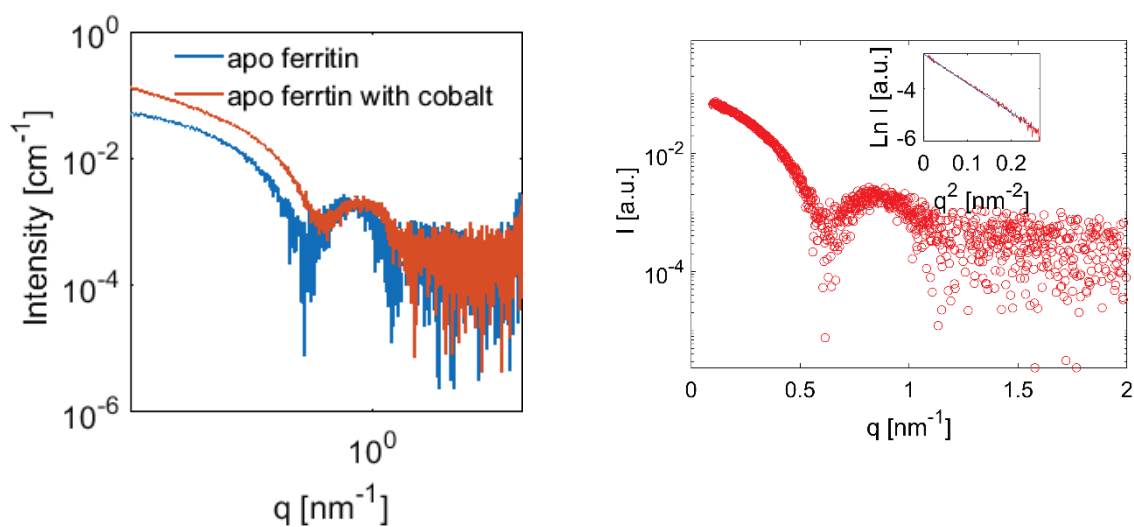


Figure S1 Left: SAXS data of apoferritin and ferritin loaded with cobalt measured at 6keV. Right: pure apo ferritin including the low q-regime. The inset shows the guinier plot of the low q-regime.

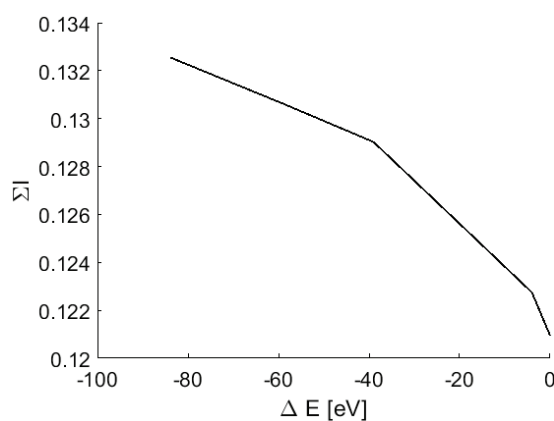


Figure S2 Integrated scattering intensity from 0.3 to 0.35 q [nm⁻¹] of the apoferritin loaded with cobalt as function of the energy difference with respect to the Co absorption edge.

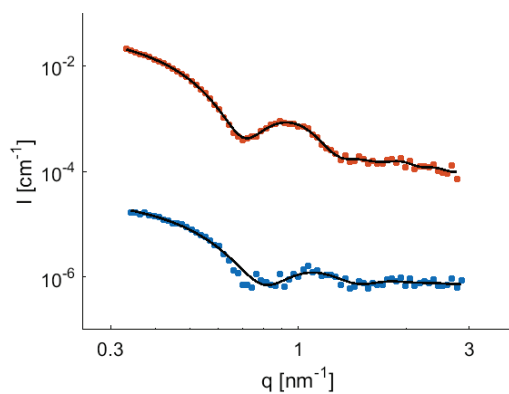


Figure S3 Fits for the $P(r)$ function for apoferritin loaded with cobalt. Blue curve: resonant part; red curve: non-resonant part.

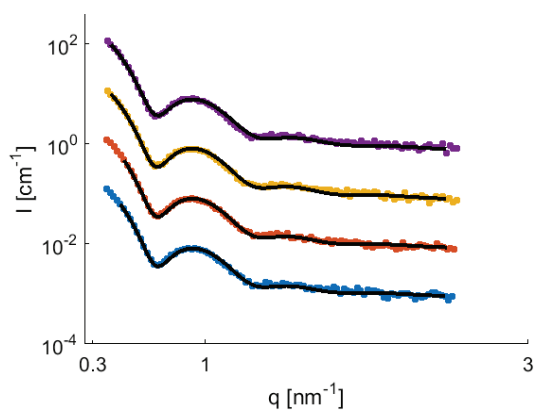


Figure S4 Fits of apoferritin loaded with cobalt to a core shell system (two shells accounting for protein and cobalt and aqueous core) using SASView.

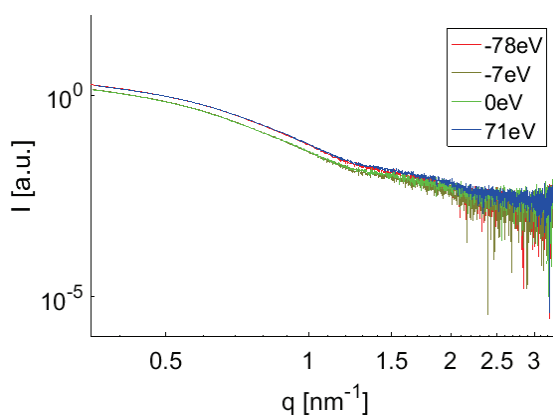


Figure S5 ASAXS curves of ferritin measured at 4 different energies around the absorption edge of 7.110 keV. The curves are named by the energy difference to the edge.

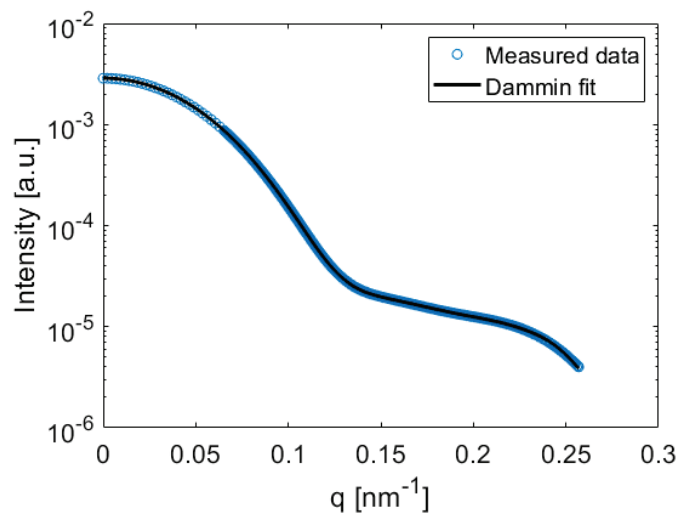


Figure S6 Dammin fits of apoferritin to describe the structure of the measured sample by a dummy bead model

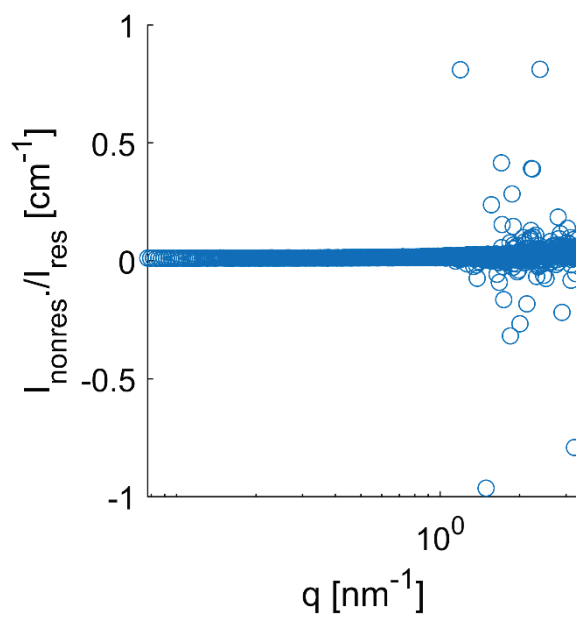


Figure S7 Ratio of non resonant to the resonant term of the ferritin data.