



## Self-assembly of Au-Fe<sub>3</sub>O<sub>4</sub> dumbbell nanoparticles

Nileena Nandakumaran

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# Contents

<b>Abstract</b>	i
<b>Zusammenfassung</b>	ii
<b>Acknowledgements</b>	v
<b>1. Introduction</b>	1
1.1. Thesis outline . . . . .	2
<b>2. Theoretical framework</b>	4
2.1. Magnetism . . . . .	4
2.1.1. Atomic magnetic moment . . . . .	4
2.1.2. Magnetic moment due to electrons . . . . .	7
2.1.3. Magnetism in a solid . . . . .	10
2.1.4. Macroscopic parameters . . . . .	12
2.1.5. Types of magnetic order . . . . .	13
2.1.6. Magnetic anisotropy . . . . .	14
2.1.6.1. Magnetocrystalline anisotropy . . . . .	15
2.1.6.2. Shape anisotropy . . . . .	16
2.1.6.3. Surface anisotropy . . . . .	17
2.1.6.4. Other anisotropic contributions . . . . .	18
2.2. Nanomagnetism . . . . .	19
2.2.1. Magnetic nanoparticles . . . . .	19
2.2.2. Single Domain . . . . .	20
2.2.3. Stoner-Wohlfarth (SW) model . . . . .	22
2.2.4. Superparamagnetism (SPM) . . . . .	24
2.2.5. Blocking temperature ( $T_B$ ) . . . . .	26
2.2.5.1. Langevin function . . . . .	26
2.3. Interparticle interactions in colloid . . . . .	26
2.3.1. van der Waals (vdW) forces . . . . .	27

2.3.2. Electrostatic (ES) forces . . . . .	28
2.3.3. Steric force . . . . .	30
2.3.4. Magnetic forces . . . . .	31
2.3.5. Gravitational force . . . . .	32
2.4. Scattering . . . . .	33
2.4.1. Elastic scattering experiment . . . . .	33
2.4.2. Scattering cross-section . . . . .	34
2.4.3. Quantum scattering theory . . . . .	35
2.4.3.1. Lippman-Schwinger equation . . . . .	35
2.4.3.2. Born approximation . . . . .	37
2.4.4. Types of scattering probes: scattering length . . . . .	38
2.4.4.1. Nuclear scattering length . . . . .	39
2.4.4.2. X-ray scattering length . . . . .	39
2.4.4.3. Magnetic scattering . . . . .	40
2.4.5. Coherent and incoherent nuclear scattering . . . . .	40
2.5. Small-angle scattering (SAS) . . . . .	41
2.5.1. SAS fundamentals . . . . .	41
2.5.2. Form and structure factors . . . . .	43
2.5.3. Behaviour at low Q: Guinier regime . . . . .	45
2.5.4. Behaviour at high Q: Porod regime . . . . .	46
2.5.5. Guinier-Porod model . . . . .	46
2.5.6. Contrast variation using neutrons . . . . .	47
2.5.7. Polarized neutrons: SANSPOL . . . . .	49
2.5.8. Experimental aspects: data treatment . . . . .	53
2.6. Wide angle scattering . . . . .	54
2.6.1. Fundamentals: Bragg's Law . . . . .	55
2.6.2. Atomic planes and Ewald sphere . . . . .	56
2.6.3. Powder diffraction: Bragg peaks . . . . .	58
2.6.4. Total scattering experiments: Bragg and diffuse peaks . . . . .	59
2.6.5. Experimental aspects: data treatment . . . . .	60
<b>3. Review of magnetic dumbbells nanoparticles</b>	<b>64</b>
3.1. Single phase nanoparticles . . . . .	64
3.1.1. Gold nanoparticles . . . . .	64
3.1.2. Iron-oxide nanoparticles . . . . .	65

3.2. Types of dumbbell . . . . .	66
3.3. Review of current synthesis methods . . . . .	67
3.4. Emergence of novel properties . . . . .	68
3.5. Previous observation of assemblies . . . . .	69
3.6. Applications . . . . .	70
3.7. Conclusion . . . . .	72
<b>4. Experiments: Instruments, Methods and Simulations</b>	<b>73</b>
4.1. Samples . . . . .	73
4.2. Electron Microscope (EM) . . . . .	73
4.2.1. TEM . . . . .	75
4.2.1.1. Working principle . . . . .	75
4.2.1.2. Sample preparation . . . . .	76
4.2.2. SEM . . . . .	76
4.2.2.1. Working principle . . . . .	76
4.2.2.2. Sample preparations . . . . .	77
4.3. Magnetometer . . . . .	77
4.3.1. Working principle and setup . . . . .	77
4.3.2. Sample preparation . . . . .	78
4.3.3. Data acquisition . . . . .	79
4.3.4. Elemental analysis . . . . .	80
4.4. Thermogravimetric Analysis (TGA) . . . . .	80
4.5. Total scattering experiments-xPDF . . . . .	80
4.5.1. Setup . . . . .	80
4.5.2. Sample preparation . . . . .	82
4.5.3. Data acquisition . . . . .	83
4.6. Small-angle x-ray scattering (SAXS) . . . . .	83
4.6.1. Setup . . . . .	83
4.6.2. Sample preparation . . . . .	84
4.6.3. Data acquisition . . . . .	84
4.7. Small-angle neutron scattering (SANS) . . . . .	85
4.7.1. Setup . . . . .	86
4.7.2. Sample preparation . . . . .	86
4.7.3. Data acquisition . . . . .	87
4.8. Reverse Monte-Carlo simulations . . . . .	87

4.9. Conclusion . . . . .	88
<b>5. Self-assembly in single phase IONPs as a reference to dumbbells</b>	<b>91</b>
5.1. Introduction . . . . .	91
5.2. Samples and synthesis . . . . .	91
5.3. Shape size and crystallinity . . . . .	93
5.4. Composition and local structure . . . . .	94
5.5. Magnetic properties . . . . .	96
5.6. Magnetic field induced self-assembly . . . . .	98
5.6.1. Energy calculations . . . . .	98
5.6.2. Assemblies as function of size, concentration and magnetic field	102
5.6.3. Formation of 1D chains . . . . .	104
5.6.4. Role of shell thickness . . . . .	109
5.6.5. Magnetic structure . . . . .	110
5.7. Reverse Monte Carlo (RMC) simulations . . . . .	112
5.8. Conclusion . . . . .	115
<b>6. Structural and Magnetic Characterization of Dumbbell Nanoparticles</b>	<b>116</b>
6.1. Dumbbell geometry . . . . .	116
6.2. Samples and synthesis . . . . .	117
6.3. Shape, size and crystallinity . . . . .	118
6.4. Composition and local structure . . . . .	121
6.5. Magnetic properties . . . . .	124
6.6. Surface ligand density . . . . .	129
6.7. Conclusion . . . . .	132
<b>7. Self-assembly of Dumbbell Nanoparticles</b>	<b>133</b>
7.1. Scattering contrast . . . . .	133
7.2. Phase separation and macroscopic assemblies . . . . .	134
7.3. Probing self-assembly : 2D visual analysis . . . . .	135
7.3.1. 2D SAXS patterns . . . . .	135
7.3.2. 2D SANS patterns . . . . .	137
7.4. Types of assemblies and analysis methods . . . . .	139
7.5. Category O: No assemblies . . . . .	141
7.5.1. Radial analysis . . . . .	141

7.6. Category I: 1D chains with disorder . . . . .	144
7.6.1. Radial analysis . . . . .	144
7.6.2. Sectoral analysis . . . . .	145
7.7. Category I: 1D chains . . . . .	147
7.7.1. Radial analysis . . . . .	148
7.7.2. Sectoral analysis . . . . .	148
7.8. Category II: 2D chain assemblies . . . . .	149
7.8.1. Radial analysis . . . . .	150
7.8.2. Sectoral analysis . . . . .	150
7.9. Orientation of Particles . . . . .	152
7.10. Scattering simulation with BornAgain . . . . .	156
7.11. Shape induced mechanisms involved in the assembly formation . . . . .	159
7.11.1. Energy estimates . . . . .	159
7.11.2. Differences between IONPs and DBNPs . . . . .	163
7.12. Conclusion . . . . .	164
<b>8. Conclusion and outlook</b>	<b>166</b>
8.1. Conclusion . . . . .	166
8.2. Scope for future developments . . . . .	169
8.3. Outlook . . . . .	171
<b>A. Structural parameters</b>	<b>174</b>
A.1. Image analysis results . . . . .	174
A.2. Total scattering refinements . . . . .	175
A.3. SAXS refinement parameter . . . . .	177
A.4. SANS fits and parameters . . . . .	181
A.5. Sector fits . . . . .	182
<b>B. Magnetic properties</b>	<b>184</b>
<b>C. Energy calculation</b>	<b>186</b>
<b>D. Extended dumbbell analysis</b>	<b>188</b>
<b>List of Abbreviations</b>	<b>193</b>
<b>List of Symbols</b>	<b>194</b>

*Contents*

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<b>Bibliography</b>	<b>198</b>
<b>List of Figures</b>	<b>220</b>
<b>Declaration of Authorship</b>	<b>235</b>

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