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| **Summer Placement Project Proposal** |
| Supervisor(s): Dr Thorsten Hesjedal  Nominees in case of absence: Shilei Zhang  Duration of Placement: up to 12 weeks  Date restrictions: none |
| **Section 1: Project description:**  Project title: Growth and characterization of oxide skyrmion systems  The project is aiming at developing growth recipes for the synthesis of skyrmion thin films. The oxides will be characterized in house by XRD, AFM, SEM, and SQUID magnetometry. The students will be trained on all of these techniques, as well as magnetron sputtering. |
| **Section 2: Special requirements (skills and experience required):**  Required skills: high motivation, practical lab experience (hands-on), strong interest in materials and magnetism.    Desired skills: ultra-high vacuum technology, thin films and thin film growth, electron microscopy, scanning probe microscopy. |