**FKF3420 Synchrotron Characterization Methods in Fibre and Polymer Technology – Theory**

**All times c.t.**

18th November, 2024, 15-17, place Rånbyrummet: 1 Lecture / Introduction to Synchrotron radiation

19th November, 2024, 9-11, place tba: 1 Lecture / Fundamentals of interaction of X-rays with matter

20th November, 2024, 9-11, place tba:”: 1 Lecture / Basics of small- and wide-angle X-ray scattering

21st November, 2024, 9-11, place tba: 1 Lecture / Basics of small- and wide-angle X-ray scattering & Applications of small-angle and wide-angle X-ray scattering I

22th November, 2024, 9-11, place tba: 1 Lecture / Applications of small-angle and wide-angle X-ray scattering II

25th November, 2024, 9-11, place Rånbyrummet: 1 Lecture / Introduction to Grazing incidence small-and wide-angle X-ray scattering & distribution of exercise

25th November, 2024, 13-15, place Rånbyrummet: 1 Lecture / A practical approach: Soft Matter materials science at P03, PETRA III

29th November, 2024, 9-11, place Rånbyrummet: 1 Lecture / Applications in thin film technology I

2th December, 2024, 15-17, place Rånbyrummet: 1 Lecture / Applications in thin film technology II

3rd December, 2024, 9-11, place tba: 1 Lecture / Modelling of X-ray scattering data and X-ray reflectometry

4th December, 2024, 9-11, place tba: Exercise: Beamtime proposal

Place: KTH campus

Tba.