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**Offer for master thesis project within the SB/ISIC/SwissCAT+ research infrastructure**

**Project 5 : Development of an automated and multiplexed kinetic analysis setup based on FT-IR and NMR**

The aim of the project is to develop a complete method (sampling sequences, concentrations, solvents, acquisition triggering, data processing,...) for reaction kinetics analysis based on a locally developed prototype of a benchtop multiplexer in combination with a Bruker Matrix-MF optical probe FT-IR, a Bruker Fourier 80 benchtop NMR and a series of 3 automated Chemspeed reactors.

Expected deliverables:

1. To develop the complete method
2. To perform qualification tests on known reactions