**Digital Ontology-based Modelling Environment for Simulation of Molecular Spectroscopies**

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**Introduction.** The project aims at bringing the academic validated COBRAMM software (TRL4) into productive environments (industry) to be employed by non specialized users to assist spectra interpretation and reach TRL7.

**Activity.** To achieve this task, the COBRAMM software (or parts of it) will be rewritten according to the Digital Ontology-based Modelling Environment developed by EMMC in these recent years, and possibly integrated within the platform managed by Fraunhofer. The software will be used to predict absorption, pump probe and fluorescence spectra on molecular test cases that will be recorded by the Nireos company. Some software development to allow novel spectroscopies will be also done. This is part of a more general effort undertaken within, and granted by, the NMP-H2020 SIMDOME project that the Toso group leaded by Prof. Marco Garavelli joins.