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As the result of this visit the following have been done:

1. Finalisation of the paper “Topological defects around spherical nanoparticle in nematic liquid crystal: coarse-grained molecular dynamics simulations” authored by J. Ilnytskyi, A. Trokhymchuk and M. Schoen. New simulations have been conducted for the case of soft colloid, in which the orientation of the external shell of liquid crystal particles is maintained via orientating field applied within a spherical shell of thickness $R/3$ and $R/3$ (R is radius of colloid particle). The new section is introduced as the result of discussions with M. Schoen, which contains the discussion on real-life systems (liquid crystal colloids, polymer-modified nanoparticles, etc.) as a prototypes for coarse-grained models employed in our study. The text of the manuscript is prepared for publication.
2. The utility has been written in fortran-90 to form the spherocylinder colloid particle with mesogen-modified surface to study the defect around such colloid when the latter is placed into a nematic host. The options for surface anchoring include homeotropic and various planar patterns. Utility allows the study of spherocylinder Janus particles.
3. Discussions have been done with the members of theoretical chemistry group in TUB on Janus particles and defects around these. Consultations and experience exchange have been conducted on coarse-grained molecular dynamics and Monte Carlo simulations.