**SLIM IBRAHIM**, University of Victoria

*Relativistic Vlasov-Maxwell for strongly magnetized Plasmas*

An important challenge in plasma physics is to determine whether ionized gases can be confined by strong magnetic fields. After modelling, this question leads to a penalized version of the Relativistic Vlasov Maxwell system, marked by the role of a singular term coming from the inverse of a cyclotron frequency. In this talk, I will go over the well-posedness of the corresponding Cauchy problem. This is a joint work with C. Cheverry.