1139-35-649   **Gustavo Hoepfner***, Rod. Washington Luis, km 235, Sao Carlos, Sao Paulo 13565-905, Brazil, and **Paulo Liboni**, **Dorina Mitrea**, **Irina Mitrea** and **Marius Mitrea**. *Multi-Layers operators on rough domains and boundary value problems.*

In this talk I will discuss Calderón-Zygmund theory results for multi-layer potential operators associated with homogeneous constant coefficient higher order systems in uniformly rectifiable domains in $\mathbb{R}^n$ and applications to Fredholm theory for boundary value problems.

This is a joint work with P. Liboni (UEL-Brazil), D. Mitrea (Univ. Missouri), I. Mitrea (Temple Univ.) and M. Mitrea (Univ. Missouri). (Received February 20, 2018)