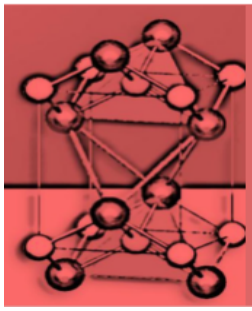

X Workshop on Novel Methods for Electronic Structure Calculations

04th – 06th December 2023
La Plata – Argentina

Xth edition of "Novel Methods for Electronic Structure Calculations": What have we done in these nearly two decades?

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It has been nearly two decades since the first edition of the Workshops "Novel methods for electronic structure calculations", marking a significant passage of time.
Throughout these years, our group has dedicated itself to exploring various types of materials and studying diverse properties. A wide range of low dimensional systems, complex surfaces and interfaces as well as 2D materials have been visited using ab initio techniques. We have gone from LMTO to Wien2k, from Wien2k to VASP. FLEUR, SIESTA, and Quantum Espresso have also been and are being used.
In this presentation, I will provide a concise historical overview of the research conducted within our group using ab initio techniques. Additionally, I will offer some insight into the current state of the field.