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Band structure of correlated Sr_2RuO_4 using DFT+DMFT OLIVIER GINGRAS, MICHEL CT, Univ of Montreal, ANDR-MARIE TREMBLAY, Univ of Sherbrooke — The discovery of superconductivity in the cuprates stimulated investigations on materials sharing similar structural properties. Ruthenates, including Sr_22RuO_4 became of great interest since they were found to be unconventional superconductors, possibly p-wave, at sufficiently low temperature. A lot of experimental data was acquired and analyzed over the past decade. Of particular interest is the discrepancy between the calculated and measured effective masses. In this presentaiton, we will present DFT+DMFT calculations as implemented in the ABINIT program to compute the electronic structure of Sr_22RuO_4.

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