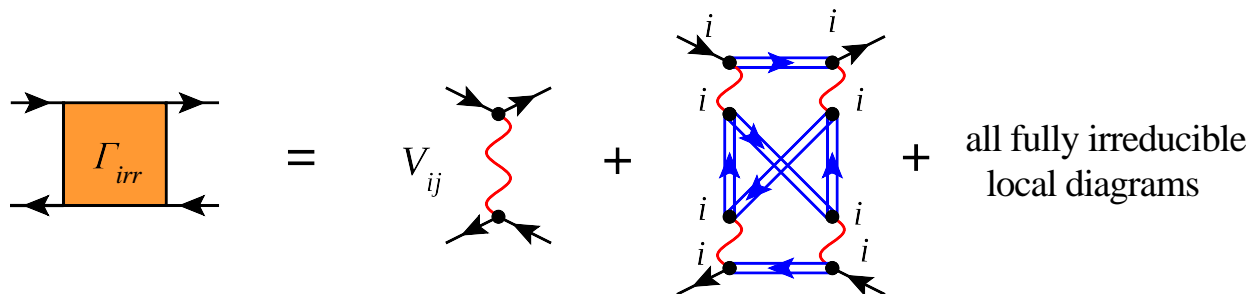


There is a vacancy for a postdoctoral and a doctoral position in Vienna within the [ERC project *Ab initio dynamical vertex approximation*](#). The aim of the project is the development, implementation and application of a novel quantum field theoretical method describing electronic correlations on all time and length scales beyond state-of-the-art methods, such as density functional theory, dynamical mean field theory, or GW. The method bears a high potential for a better understanding of [quantum critical heavy fermion systems](#), [high-temperature superconductors](#), and transport through [nano- and heterostructures](#).



Ph.D. candidates should have outstanding skills in theoretical physics and/or program development. For the postdoctoral position working experience in either quantum field theory or computer program development is required.

We offer a research topic at the scientific frontier in an international and vivid research environment. Vienna is a favorable location as regards culture and nature. More information regarding the group/project is available at

<http://www.ifp.tuwien.ac.at/cms> and
<http://www.ifp.tuwien.ac.at/abinitiodga>

Please send application and CV (for the Ph.D. positions including a detailed list of grades) to Prof. Karsten Held (held@ifp.tuwien.ac.at).