



PhD OPENING 2021

Dipolar Quantum Gas Group

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It is now an exciting time to work in the field of dipolar quantum gases, thrived by the recent discovery of novel phases of matter and unexpected quantum phenomena. Our group is currently searching for talented and motivated young physicists to join our team. It is in this spirit and in the hope of getting the best of you that we are announcing the **2021/22 opening for PhD positions** in our group:

- (A) Experimental PhD position on “Strongly-correlated Dipolar Quantum Gases of Erbium” (UIBK)
- (B) Experimental PhD position on “New Frontiers of Rydberg Tweezers with Multi-electron atoms” (IQOQI/UIBK)
- (C) [starting 2022] Experimental PhD position on “Er-Dy Quantum Mixtures” (IQOQI)

Working on these projects will provide a unique opportunity to perform exciting experiments at the frontier of quantum physics in an exceptional international environment, as well as to collaborate with a large network of researchers worldwide, and to develop valuable high-tech skills in electronics, photonics, programming, and data analysis, among others. Join us if you want to contribute in pushing the frontiers of our understanding of quantum physics and take decisive steps!

Our group is located both at the University of Innsbruck and IQOQI.

To learn more about our research, visit www.erbium.at

WHAT ARE THE BENEFITS?

Students that will join our team will be provided with a 30 hours/week university assistant PhD position following the FWF [rate of pay](#). Furthermore, the university has numerous attractive offers (<https://www.uibk.ac.at/universitaet/zusatzleistungen/>). The PhD student will enjoy the very lively quantum scientific atmosphere in Innsbruck with experimental and theoretical researchers at the University of Innsbruck and at the Institute of Quantum Optics and Quantum Information (IQOQI).

WHAT ARE THE REQUIREMENTS?

Eligible candidates are physics students that have recently completed **a master degree in Physics**. The student should have knowledge on quantum physics, atomic physics and basic experimental physics. Background in experimental atomic, molecular and optical physics is not strictly required but certainly preferred. The most important qualities that we are searching for are motivation, curiosity, and passion for the physics and its techniques.

WHAT IS THE TIME SCHEDULE?

Applications are evaluated **upon reception and until filling of the available positions**. Within two weeks following the application, the candidate will be informed via email whether or not he/she has been selected for the next evaluation step. Start date for the PhD is flexible.

HOW TO APPLY?

Simply send an email to francesca-ferlaino-group@uibk.ac.at as soon as possible including your motivation



as well as your CV, transcript of exams, and names of reference persons (minimum one). Women are particularly encouraged to apply.