



## Cold Molecular Ions at the Quantum Limit A Marie Curie Initial Training Network 2013



### Experimental/theoretical PhD positions within the Marie Curie Initial Training Network: Cold Molecular Ions at the Quantum limit (COMIQ)

**COMIQ** is an European Commission funded network focused at educating Early Stage Researchers (ESR) at the **PhD level** within a range of advanced cooling, trapping, and control techniques with the purpose of developing cold molecular ion research beyond its present state.

The aim of COMIQ is to investigate and control a variety of molecular ion processes at the very quantum limit. COMIQ will work on establishing cold molecular ions as new quantum objects for applications in quantum technology, precision measurements, and controlled chemistry. The network is highly interdisciplinary, combining quantum optics, quantum information sciences, molecular physics, and chemical physics in a novel and original fashion. We therefore invite strong candidates from all relevant disciplines to apply for a fellowship. Each fellowship has its own distinct profile and we wish the same for our future ESRs.

The network consists of ten partners, both academic and industrial, and all ESRs will be seconded at least once during the fellowship at another partner site. The 13 PhD positions, which are described in detail at [itn-comiq.eu](http://itn-comiq.eu) are available from November 1st, 2013. Most of the fellows are expected be hired within the first six months from this date, but later starting dates can potentially be accepted. Overview of open position can be found at <http://itn-comiq.eu/esr-project-descriptions/>

#### Eligibility Criteria

Research experience 0-4 years counted from the diploma that gives the rights to embark in a doctoral degree. The researcher must not have resided or carried out his/her main activity (work, studies, etc) in the country of his/her host organisation for more than 12 months in the 3 years immediately prior to his/her recruitment. Short stays, such as holidays, are not taken into account.

#### How to apply?

Send the following documents to the supervisor of your preferred project:

- Motivated application (approx. 1 page)
- Marks sheets
- Resumé of Master's thesis (approx. 1 page)
- Short CV

as well as your name and address. Any questions may be submitted to this address:  
[celia@phys.au.dk](mailto:celia@phys.au.dk)