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I have attended the workshop and summer school "Frontiers of attosecond and ultrafast X-ray science" at Erice in Italy in March 2017, which offered highly interesting scientific talks given by group leaders in my field of research (link: <http://www.eric-attosecond.it/>).

The goal of this summer school is to educate a younger generation of scientists, most of them just starting their PhD in the field of attosecond and ultrafast X-ray science and give a platform to meet and discuss with professors, PhD students and other scientists, working in the same field, but coming from different institutes or laboratories.

The scientific talks were designed for postgraduate students in their first phase of their PhD degree in a more lecture like way. This enabled the attendees to understand new and different research topics in the whole research field of attosecond and ultrafast X-ray science and helped us get a general overlook. The topics covered the general aspects of ultrafast and attosecond physics in theoretical and experimental talks. Furthermore, every group leader presented the state of the art research in his own group. This program was further enriched by more technical talks (i.e. optics, accelerators, ...), which helped to see connections to different field of researches and the limitations at the moment. The location of the summer school in Erice and the design of the timetable encouraged people to meet and discuss about their work in science, which lead to a lively exchange and was therewith a good foundation for networking.

Within the dense programme of 8 days of lectures given by about 20 different professors and scientist, the participants were also given the chance to discuss their own work with the other about 80 attendees in poster session taking place during every coffee break of

the conference. This enabled all attendees to get a general feeling of the state of the art in our research field and furthermore also to see the current limits and problems, we must overcome to reach the anticipated targets.

The discussion with many different scientists, group leaders and other participants at the various occasions (i.e. lunch breaks, poster sessions, ...) was extremely helpful to get ideas for my own research and to understand the topics, other research laboratories are dealing with at the moment. Furthermore, the summer school enabled the attendees to connect to a huge number of scientists from various groups. This will help us, to find overlapping research topics, start new collaborations or just find the right contact person, helping to tackle future questions in our field of research.