

Topical Workshop "Atomic Physics in Strong Fields"; September 6 - 11, 2005
=====

<http://zfjavs.fuw.edu.pl/mazurian/mazurian.html>

July 9th, 2005

Dear Colleagues,

a couple of weeks ago, Thomas Stoehlker and Reinhold Schuch sent you the second circular about this topical workshop on "Atomic Physics in Strong Fields" which is held in remembrance of Gerhard Soff and his longstanding contributions to this field. This workshop will discuss the physics and goals of the SPARC project at GSI and wishes to encourage the various working groups for closer contact and collaboration.

As we agreed last year in Darmstadt, the main intention of the theory group is to support the experimental groups with data required and with suggestions for mid-term and new experiments within the framework of SPARC. We shall also emphasize our interest and capabilities as the success of such a large project certainly depends on the community who is going to support it actively. At present, the following (theoretical) topics are of general interest for the SPARC community.

- a) QED in few-electron ions and super-heavy atoms;
- b) radiative and non-radiative electron capture into few-electron ions;
- c) generation and measurement of polarized ion beams;
- d) impact ionization; studies on the (double-) differential cross sections and the dependence from the impact parameters,
- e) limits of the semi-classical approximation;
- f) relativistic pair production; bremsstrahlung, etc.

To stimulate the further discussion about these topics, please, consider to take part in the workshop and our discussions. Moreover, please contact us if you wish to contribute with a short talk; apart from the morning sessions, we will have (at least) one theory session and discussions in parallel to the other working groups.

Looking forward and hope seeing you at the Mazurian Lakes.

With best wishes
Sincerely Yours
Stephan Fritzsche

P.s. If appropriate, please, reply to s.fritzsche@physik.uni-kassel.de (I'll be back from a conference at July, 21st.)