

Announcement for postdoctoral fellowship

The research group of P. Moskal invites applications for a postdoctoral position in the project entitled „Studies of discrete symmetries in decays of positronium atoms”.

The minimum requirements for candidates are:

- PhD diploma in Natural Sciences, Engineering, Computer Science, Mathematics or related field of science.
- Experience in radiation detectors calibration, advanced multi-level data analysis, Monte-Carlo simulations, advanced level statistical inference, relativistic kinematics and computer programming.
- Good knowledge of English (spoken and written)

The successful applicant is expected to perform following research tasks: Elaboration of methods for the reconstruction of time and position of decays of para- and ortho-positronium atoms and methods for the determination of polarisation of gamma quanta and positronium atoms. Measurements with the J-PET tomograph equipped with the annihilation chamber and START detector; Data taking and data quality checks; On-line calibration of the whole detection system; Elaboration of methods for identification and selection of registered events; Elaboration and validation of the background suppression methods; Conceptual work aiming at elaboration of new observables for the test of discrete symmetries with the J-PET detector; Interpretation of results, preparation of scientific articles, presentation of results at conferences and scientific meetings.

The candidates should submit applications containing the following documents

1. Short application including motivation letter (maximum three pages),
2. Scientific CV including list of publications
3. At least two letters of recommendation (preferentially send directly to P. Moskal via e-mail)

All documents should be submitted in the pdf format to the address: p.moskal@uj.edu.pl

The position will be available initially for one year, but may be renewed for further two years (maximally) by mutual agreement.

The deadline for submission of applications is 12 April 2017.

The candidates will be informed (by email) of the result of the selection on 24th of April 2014.

More informations can be found at: <http://koza.if.uj.edu.pl/>