The Faculty of Science, Department of Physics, Integrated Quantum Optics Group, offers the position of

Post doc / Research assistant
(pay scale 13 TV-L)

This is a full-time position starting at the earliest possible date and limited to one year according to the German law “Wissenschaftszeitvertragsgesetz”. It offers the opportunity to qualify as a group leader of an independent group.

Scientific background:
The genuine quantum character of optical systems can be characterized by the observation of specific quantum correlations, e.g. in photon counting experiments. The analysis of these correlations, in particular the classification of non-classical features such as entanglement, requires the combination of a thorough understanding of the physical system in combination of the know-how of the appropriate mathematical tools.

Position Profile:
The position focusses on the establishment of novel approaches for classifying non-classical characteristics in optical networks in the context of hybrid discrete-continuous variable systems, studies of dynamics in quantum walks, and time-frequency correlations of ultrafast pulsed quantum states of light.
The regular teaching responsibility is four hours per week.

Your Profile:
Applicants must have a PhD degree in physics or in a related relevant subject; experience in quantum information science, theoretical quantum optics and analysis of experimental systems.

Applications from women are particularly welcome and, in case of equal qualifications and experience, will receive preferential treatment according to state law (LGG). Qualified disabled people (in the sense of the German social law SGB IX) are also encouraged to apply.

Please send your application by 25 June 2018 with reference 3382 to:

Prof. Dr. Christine Silberhorn
University of Paderborn
Faculty of Science
Department of Physics
Warburger Straße 100
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