parelectrics

Berlin physicists develop a new method for noninvasive diagnosis of skin cancer

According to an estimate of the Deutsche Krebshilfe in Germany every year 140,000 people contract skin cancer with increasing tendency. An early diagnosis, however, can significantly improve the chances of curing. The Berlin parelectrics company has developed a device for the diagnosis of skin cancer, providing the dermatologist with a novel tool for a non-invasive diagnosis of such diseases even in their early stages.

The device is based on a patented measurement method, the so-called Parelectric Spectroscopy. With the help of this procedure dermatologists can carry out simple, harmless and inexpensive measurements directly on the human body. This is achieved by briefly contacting the skin with a purpose-built probe. In addition to the `classical` methods for diagnostics the dermatologists can search also in deeper layers of the skin for possible tumors allowing for an inspection in their early stages - without injuring the skin.

The Parelectric Spectroscopy is a versatile physical tool developed and applied by Prof. Dr. Klaus Kramer and Dr. Tobias Blaschke at the Departments of Physics and Pharmacy, Freie Universität Berlin. The founding team is completed by Matthias Fellner, who is in charge of the business part of the company. After successfully handling various research projects, for example in the development of a skin-cancer therapy, they consequently founded the company parelectrics. The prototype of the ParaScan I is currently in clinical trials.

Up to now, several university clinics have expressed their interest in the device. Furthermore, cooperations with investors and medical device technology manufacturers are being established.