

parelectrics

Good or evil? And how deep?

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

What is it all about?

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 aim of parelectrics

The device is based upon an entirely novel measurement principle, 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.

Who is behind the wheel?

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 of 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.

What's next?

With the help of a sponsorship from the Federal Ministry of Economics and Technology, the founders developed a prototype, which is by now used in the clinical trial.

Already, several university clinics have expressed their interest in the device, not least because of the presence of parelectrics at the MEDICA trade fair. On further specialist congresses, the prototype shall attract new customers and convince possible investors.

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