

Compact very high frequency field probe (PhD)

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Fully exploiting the spectrum between 50 GHz and 100 GHz opens up a wide range of applications, e.g. sensors placed on the human body, collision radars, high data throughput antennas integrated in smart textiles, etc. Experimental characterisation in this frequency range is very challenging. This is in particular the case when the actual fields have to be measured.

The main challenge for these field measurements stems from the fact that classical field probes disturb their measurement environment. In the envisaged frequency range, this disturbance becomes too large to still yield valid result. To remedy this problem, in literature, optical probing of electric fields has been proposed.

The goal of the Ph.D. research is to realize such an all-optical field probing in a close cooperation between the Electromagnetics Research group and the Photonics Research group. Starting from a single point probing, the further goal is to realize an array of fixed probing points in order to measure a complete field map.

Interested candidates can contact prof. D. De Zutter, prof. D. Vande Ginste or prof. D. Van Thourhout for further details.

Application:

Apply by filling in the [application form](#)*.

* You will be redirected to an external application page

Application deadline: March 1 2014

More information:

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