

## Reconfigurable/tunable RF Bandpass Filter

### Background

In the future transceivers may support multiple standards such as 3G, 4G and 5G. One important requirement for components used in the advanced transceivers is reconfigurable and tunable functions to adopt different specifications. A nonlinear device is normally rigid but one using a flexible substrate is implemented and an RF filter will be investigated.

### Tasks

Study and design reconfigurable/tunable RF filter using in-house flexible technology.

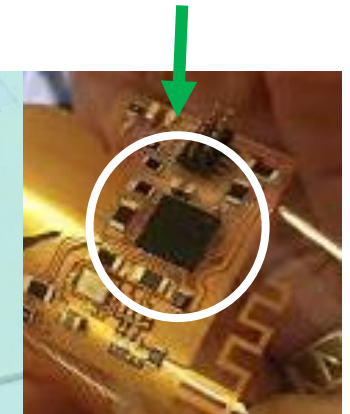
The tasks may involve :

- Paper survey
- Design
- Layout and EM simulation

flexible device  
by HFE



rigid device



### Contact

Chun-Yu Fan

Kopernikusstraße 16, 52074 Aachen

ICT cubes, 537

+49 241 80 24642

[chun-yu.fan@hfe.rwth-aachen.de](mailto:chun-yu.fan@hfe.rwth-aachen.de)

[www.hfe.rwth-aachen.de](http://www.hfe.rwth-aachen.de)