



CNRS Profile:

Measurement, Characterisation and Analysis in complex microwave environments.

IMEP-LaHC has strong expertise in the electrical parameters extraction, at microwave frequencies, of materials requiring more elaborate 3D models than simple mixing laws (encapsulation resins, natural, biological or bio-sourced materials). The laboratory is also a specialist of the electrical parameters extraction in 2 or 4 ports of micro or Nano-electronic circuits buried with difficult access or in highly constrained environments (new 3D architectures resulting from highly integrated and advanced technologies, extreme temperatures).

As classical homogenisation methods and models are too limited to deal with this type of problem, the candidate will propose original and promising ways of microwave characterisation up to 300GHz, in free or guided space, including advanced calibration and peeling techniques as well as the contribution to electromagnetic modelling.

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