



# « Terahertz Science and Technology Team » Montpellier University - CNRS



**Composed of 26 persons**

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## 7 Researchers and Professors

*Dominique Coquillat*

*Kenneth Maussang*

*Jeremie Torres*

*Luca Varani*

*Wojciech Knap*

*Michel Dyakonov*

*Frederic Teppe*

## 5 Engineers

*Sandra Ruffenach*

*Nina Diakonova*

*Pierre Solignac*

*Petre Buzatu*

*Christophe Consejo*



**14 employees**



TRL-1

TRL-2

TRL-3

TRL-4

TRL-5

TRL-6

TRL-7

TRL-8

TRL-9

# Our know-how

## 1. Fundamental physics

- THz magnetospectroscopy (absorption & photoconductivity)
- THz Landau emission
- Transport in materials and devices

## 2. Applied physics and interdisciplinary research

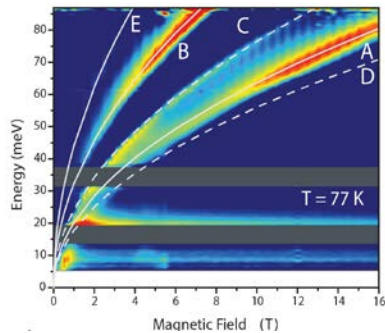
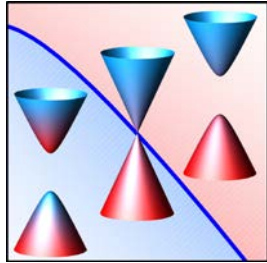
- THz nano-devices
- THz biosensors
- THz agro-ecology and sensors

## 3. Technology transfer

- Patents
- Start-up creation (*T-Waves technologies*)

# Some recent achievements

## Fundamental physics

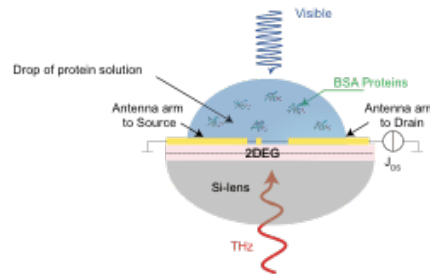
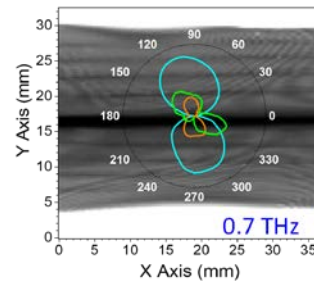


***Nature commun. (2016)***  
***PRL (2018)***  
***Science Adv. (2018)***

Topological & Dirac matter

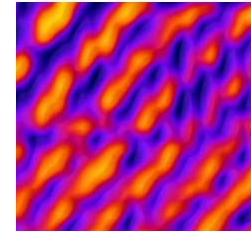
Graphene, HBTs and living matter

## THz nanodevices and sensors



***Nanoletters (2017)***  
***PRX (2018)***

## T-waves technologies



***Innovation prize "enova" (2013)***  
***Start-up creation prize "BPI" (2014)***  
***Innovation prize "midinov" (2017)***

Non-destructive testing

# Our vision

THz excitations in new materials

Novel physical phenomena



Innovative devices



Applications  
(biophysics, agroecology, etc...)



Technology transfer

<http://www.t-waves-technologies.com/en>

