<br>

To all the people who have contributed to my success and helped me upgrade my personality and lifestyle.

<br>

PhD is certainly one of the most beautiful experience that a person can live. Through this next lines, I

will try to express my gratitude to all the people helped me to live it in suitable conditions.

<br><br>

<h4>Abdelkarim Ouerghi</h4>

First and foremost, I take this opportunity to express my deepest sense of gratitude to my supervisor

Abdelkarim Ouerghi for giving an opportunity to purse my doctoral research work in his group. Abdelkarim is

a research director who had worked for years on 2D systems with a large experience with photoemission

facilities.

<br><br>

<h4>Fabrice Ohler</h4>

Fabrice is a permanent researcher in the MAT2D team. During my thesis, he was my provider for all tungsten

deselenide flakes I used. I recongnise also his support, the intersted discussions we had and his help with

VESTA software, SEM and XRD.

<br><br>

<h4>Julien Chaste</h4>

Julien is a permanent researcher in the MAT2D team. During my thesis, he basically helped me with Raman

spectroscopy and the transfer process of 2D materials. I recongnise also the discussions we had about my

work as well as about life.

<br><br>

<h4>Geoffroy Kremer</h4>

Geoffroy had a postdoctoral position in my team for 6 months before being an associate Professor at

University of Lorraine (Nancy).

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During this period, I had the pleasure to be at his side and gain expertice. My first real intraction with a

beamline environment was with Geoffroy in Cassioppe in 2021.

<!-- <br>

<figure>

<p><img src="resources\images\acknowledgments\falcon\_edited.jpeg"

style="width:100px;text-align:center"

alt="GTK\_BU\_seats\_example.png">

<figcaption>Geoffroy is activating the Falcon eye" mode to observe the invisible bands,

just a few moments before starting tilting the head and saying kholala</figcaption>

</figure>

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<br><br>

<h4>Meryem Bouaziz</h4>

Meryem started her post-doc carrer with our group after getting her PhD in 2022. With her, we investigated

the properties of indium telluride samples using ARPES and STM facilities.

<br><br>

<h4>Marco Pala, Davide Romani and Adel Mfoukh</h4>

Marco is a researcher in COMICS team in C2N. With his PhD student Adel Mfoukh, they provide to us DFT

calculation on the different systems we studied.

<br>

Davide Roman, associate Professor at Polytech Université Paris Saclay, provides me with simulated Raman

spectra. I enjoyed also his discussing about the vibrational behavior of our TMDs.

<br><br>

<h4>Thibault Brulé et Lama Khalil</h4>

Thibault and Lama are engineers at Horiba. I am grateful for their help in making power measurements on my

WSe<sub>2</sub> samples.

<br><br>

<h4>Jean-christophe Girard and Fausto Sirotti</h4>

I gratefully acknowledge Dr. JC for providing STM data on my samples as well as for the fruitful long

discussion we have together.

<br>

With Fausto Sirotti, JC is making the community of suivi of my PhD.

<!-- all the facilities required for my research work such manipulations

and clean room training and for their fruitful discussions.

I express my sincere thanks to Prof. Fausto for being a member of me finding this internship opportunity

and for her endless support.

My first real intraction with a beamline environment was with Geoffroy in the 2021. During one of the night

I have passed with Geoffroy in gnerating spectrum in CASSIOPPEE, -->

<br><br>

<h4>Christophe David</h4>

Christophe is a PANAM member in C2N, he helped me with the KPFM measurements on WSe<sub>2</sub> and InTe

samples.

<br><br>

<h4>Maria Luisa and Merdad</h4>

I want to thank also Maria and her phd student Merdad for performing electric measurement on InTe samples.

<br><br>

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I want to thank also Vincent and his phd student Nathan for collaborating to perform IRM measurements on the

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<br><br>

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<br><br>

<h4>Iann Gerber</h4>

Iann provides me with the GW and HSE DFT calculations on the different stacking of WSe<sub>2</sub> bilayer

structures