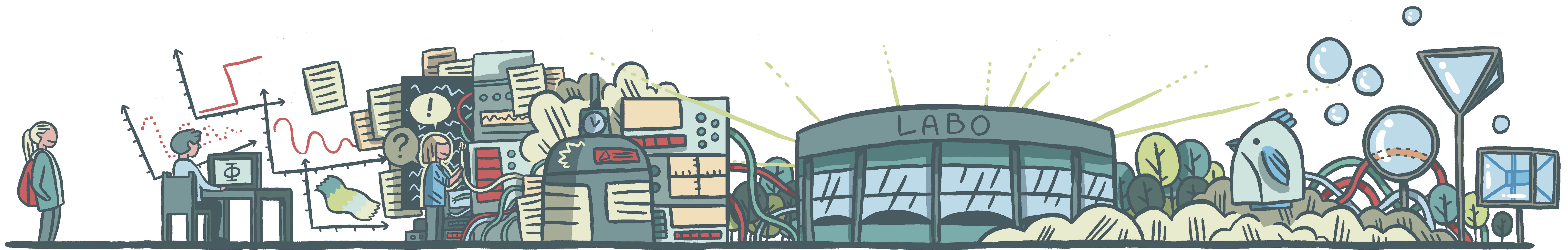
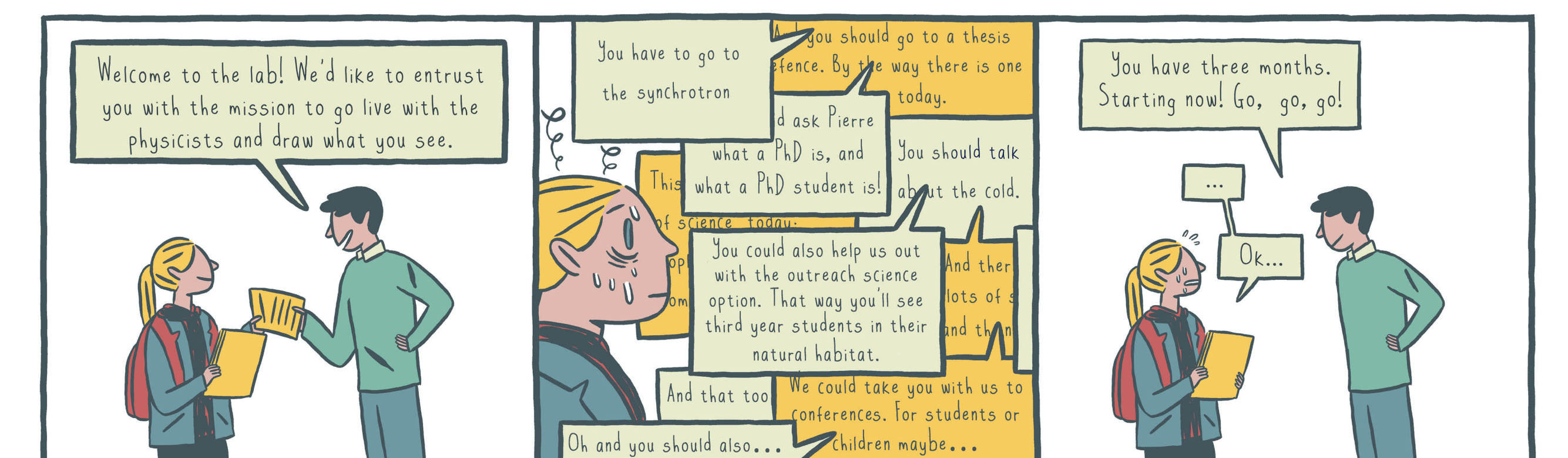


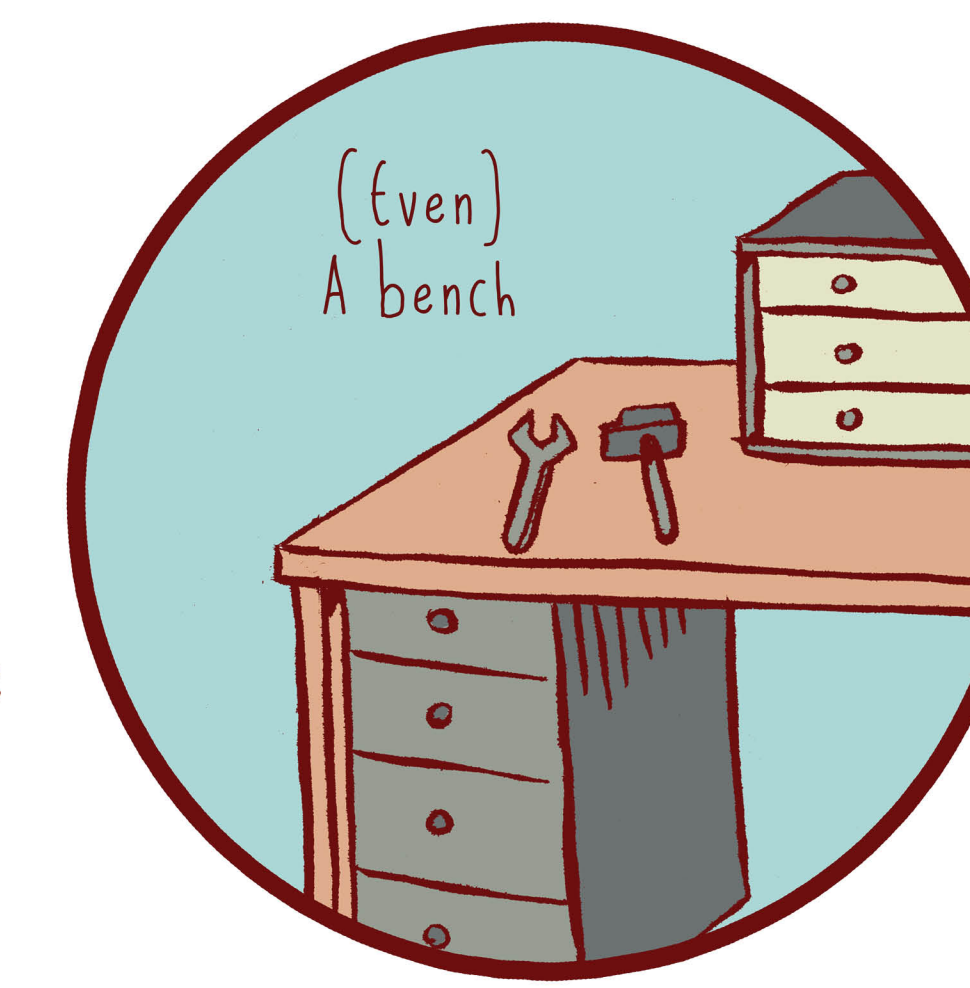
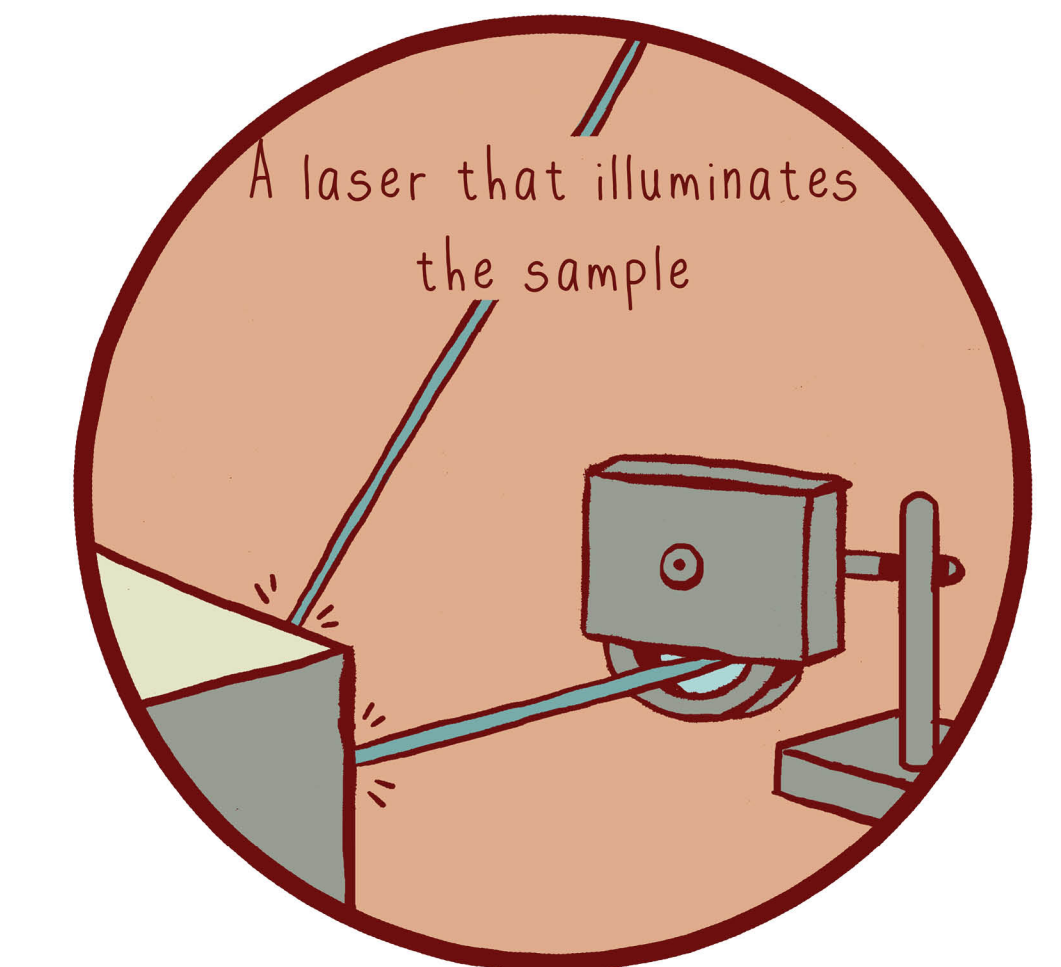
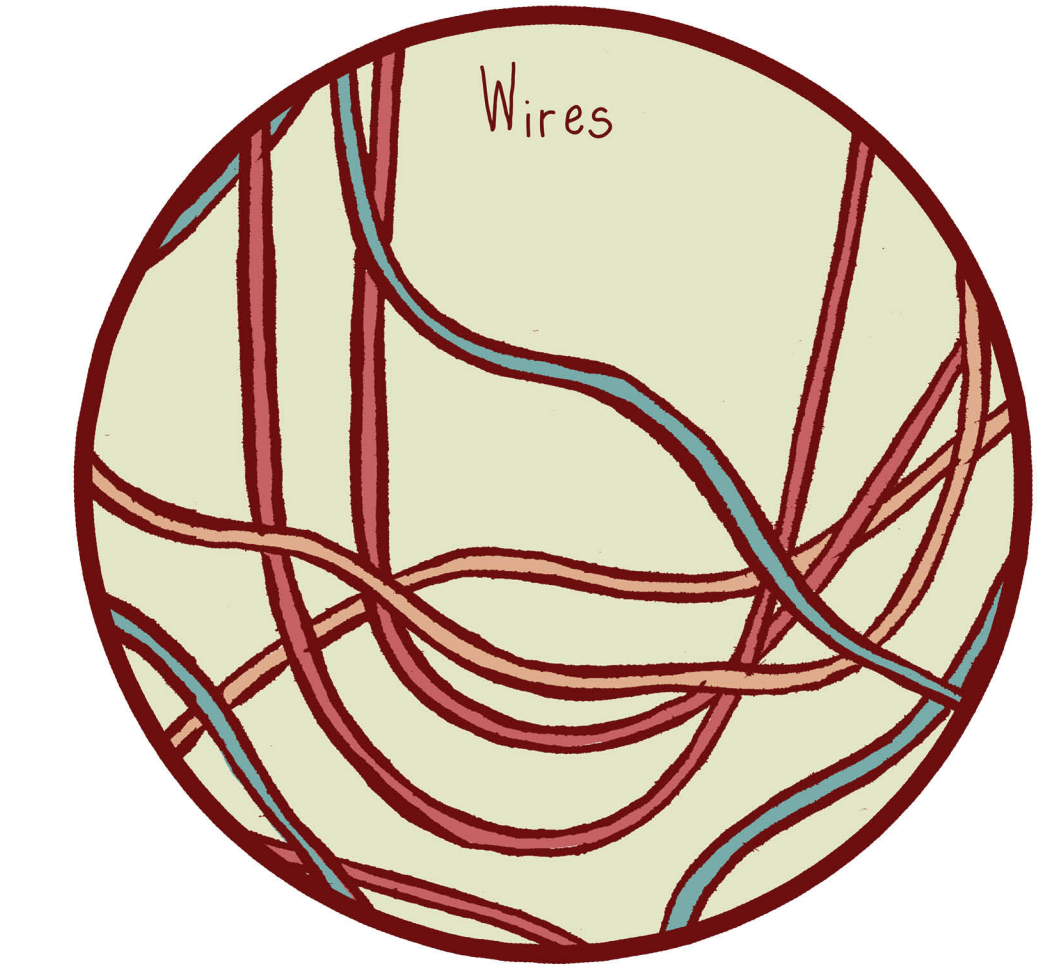
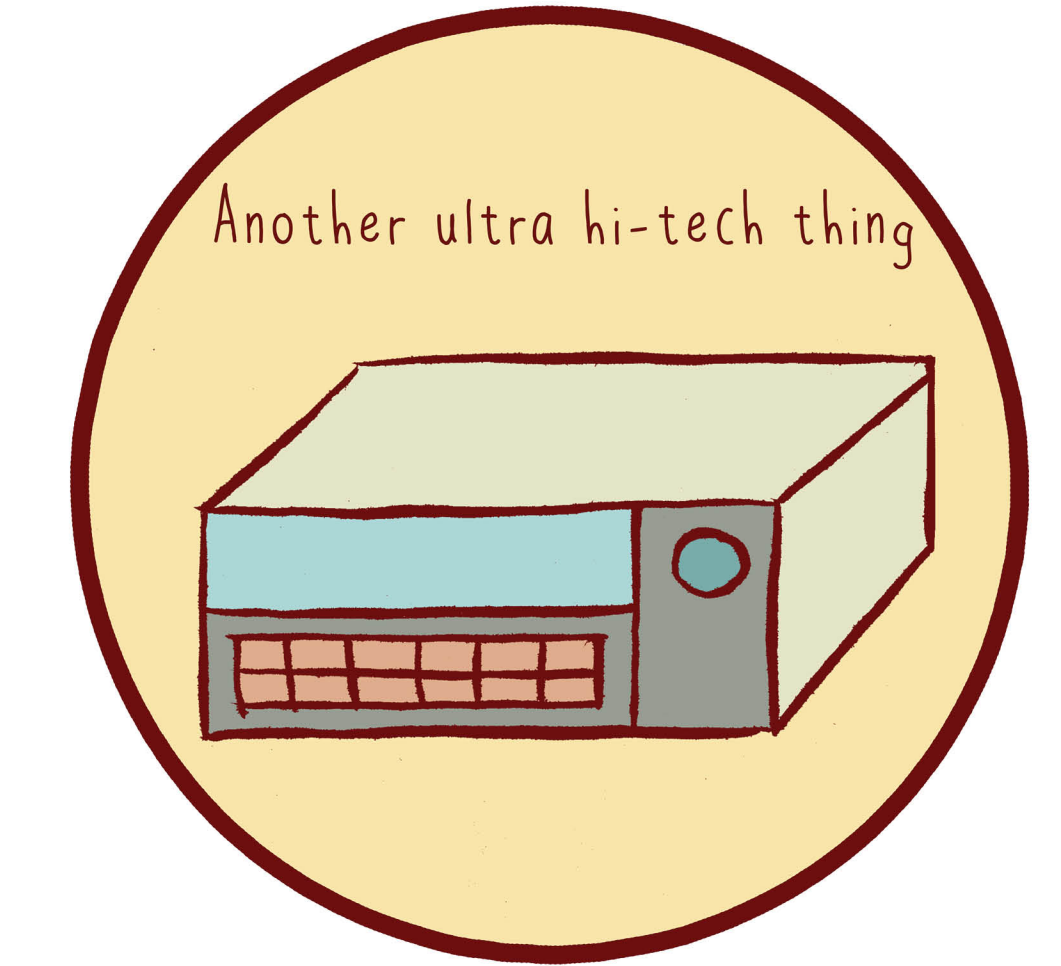
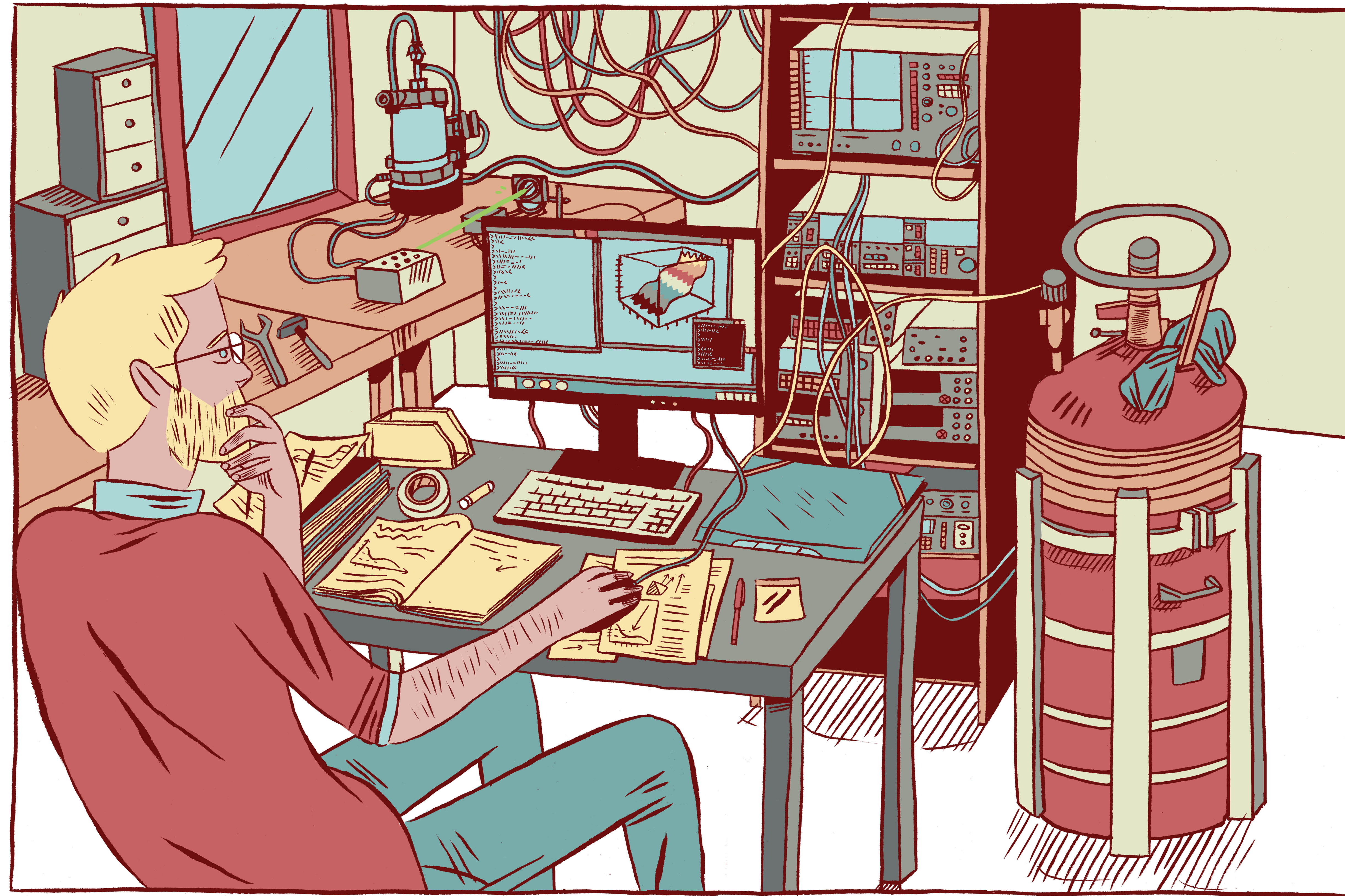
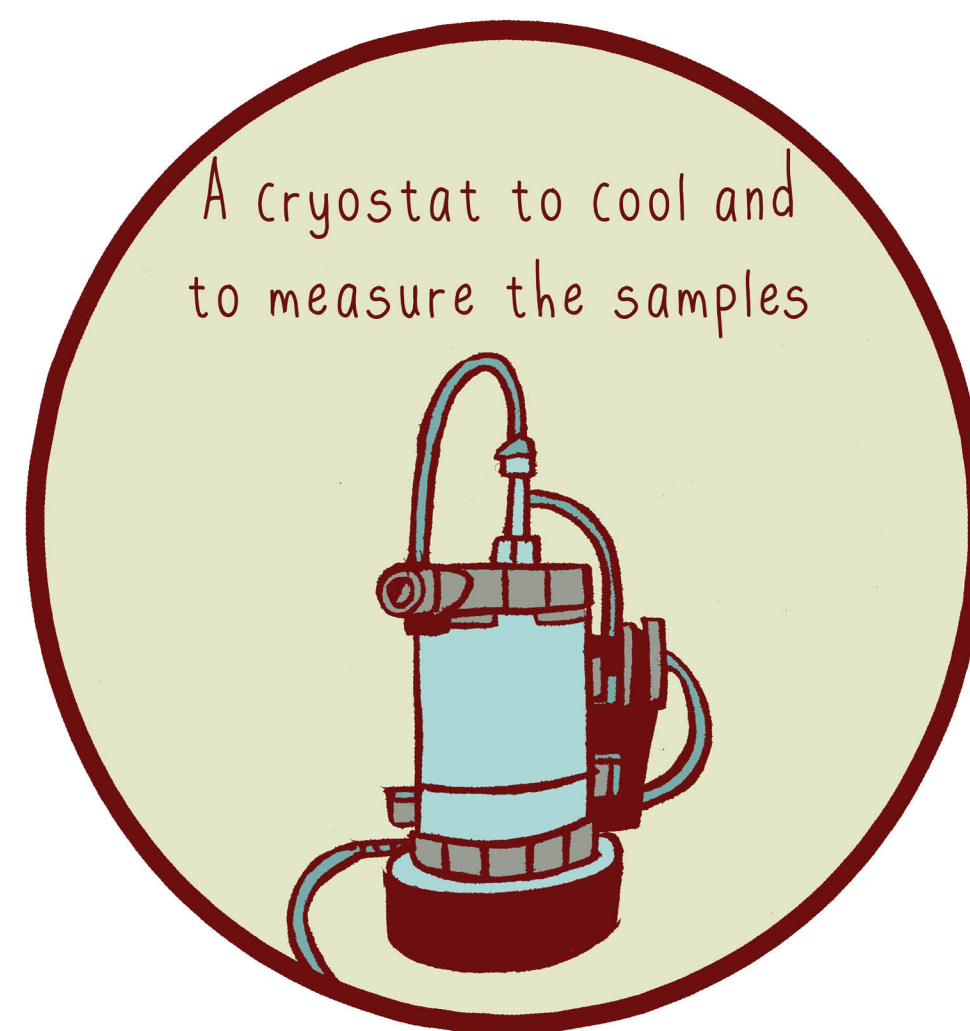
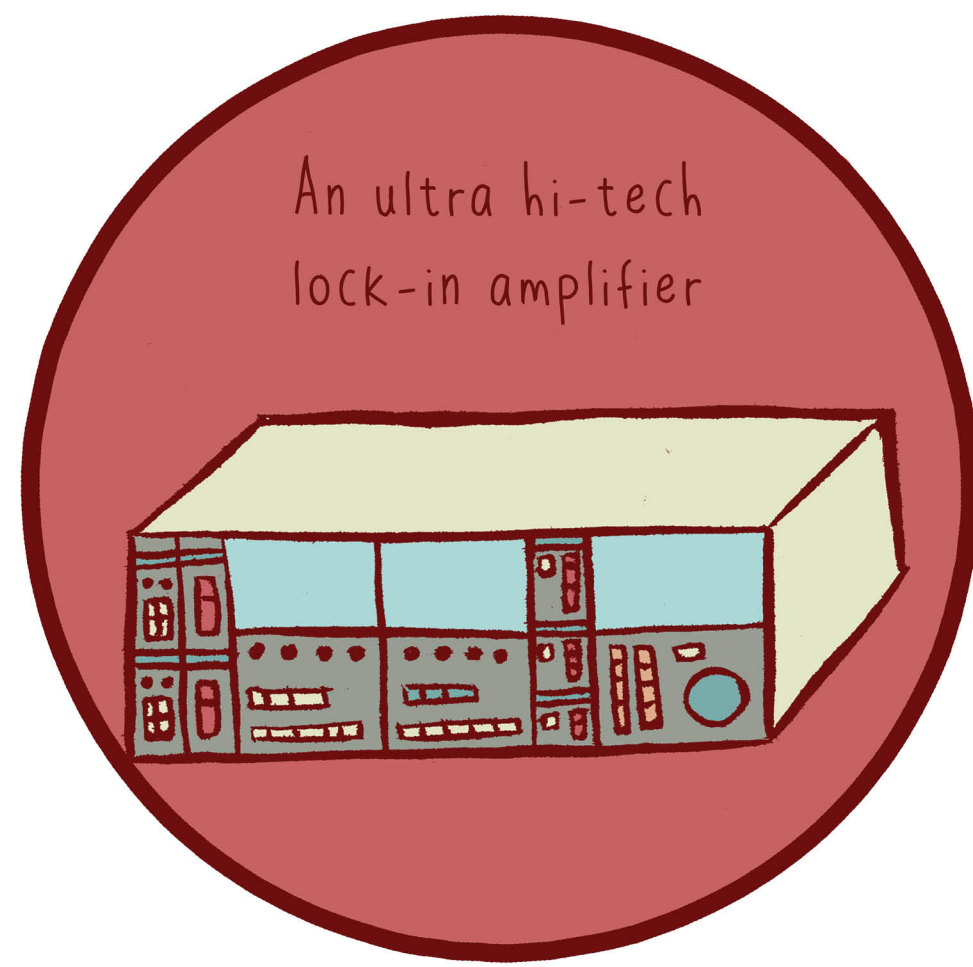
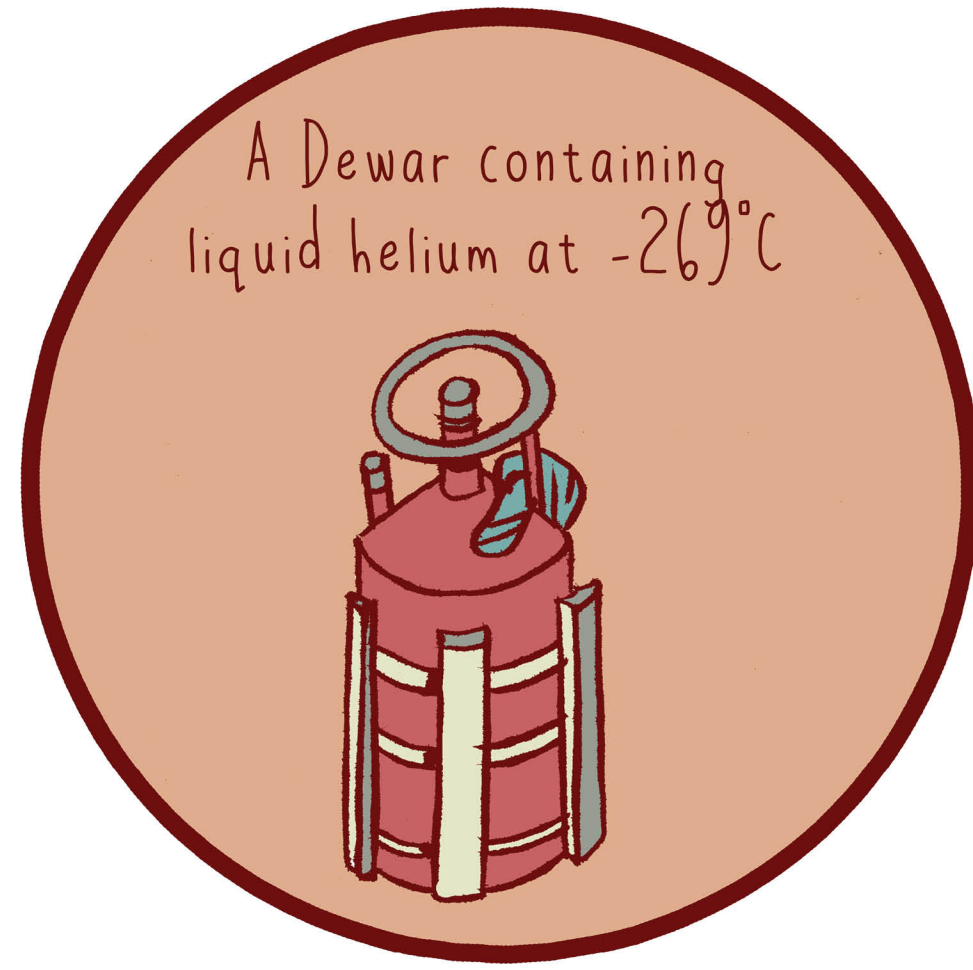
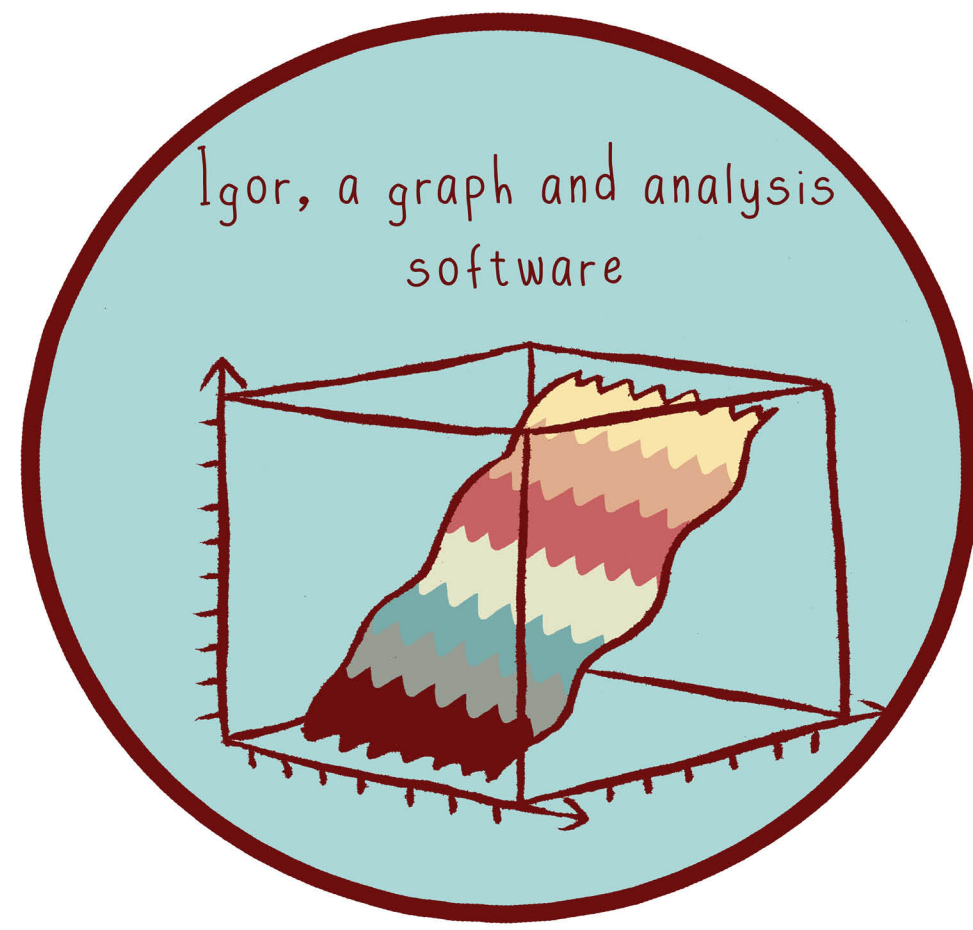
EMBEDDED WITH PHYSICISTS

Everything you ever wanted to know about research, the PhD, and public outreach
(...but were afraid to ask)



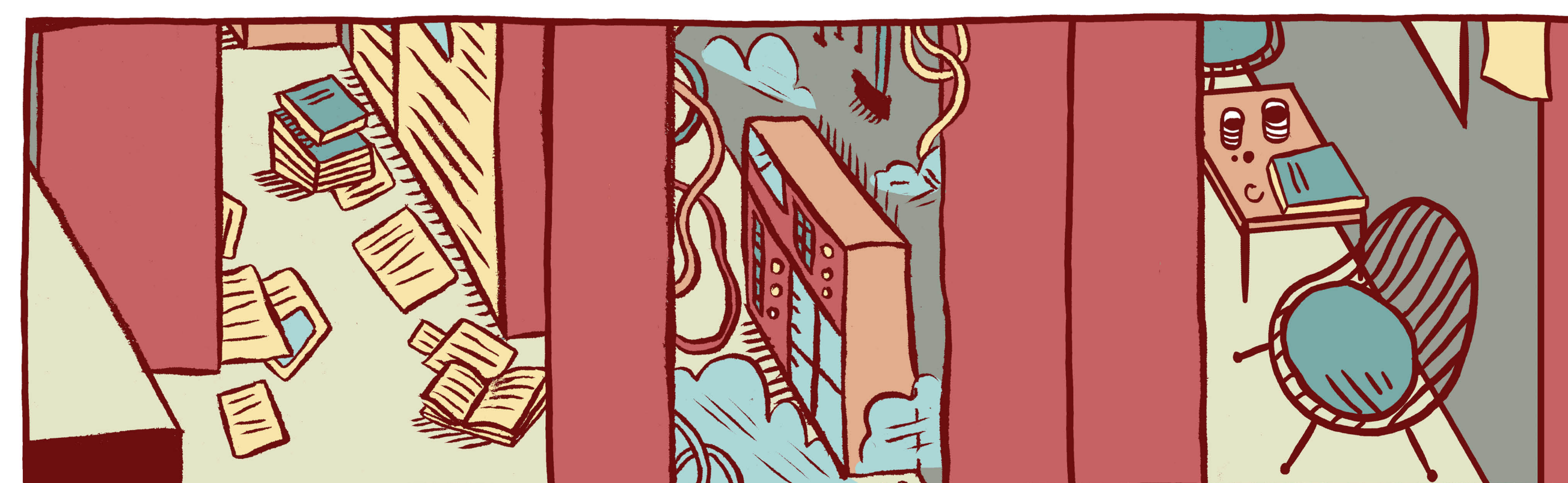
Héloïse Chochois is a young illustrator who spent four months in the Laboratoire de Physique des Solides. There, she lived with the physicists, the researchers, the students, and the PhD students in order to capture the many facets of this world. She attended an experiment at a Synchrotron, followed a physics course, lived for a few days with a PhD student in a lab, attended conferences, and shared a lot more moments of the physicists' life.





THE LAB ROOM

This is where the physicists manufacture and use experiments to measure physics phenomena, sometimes under extreme conditions.



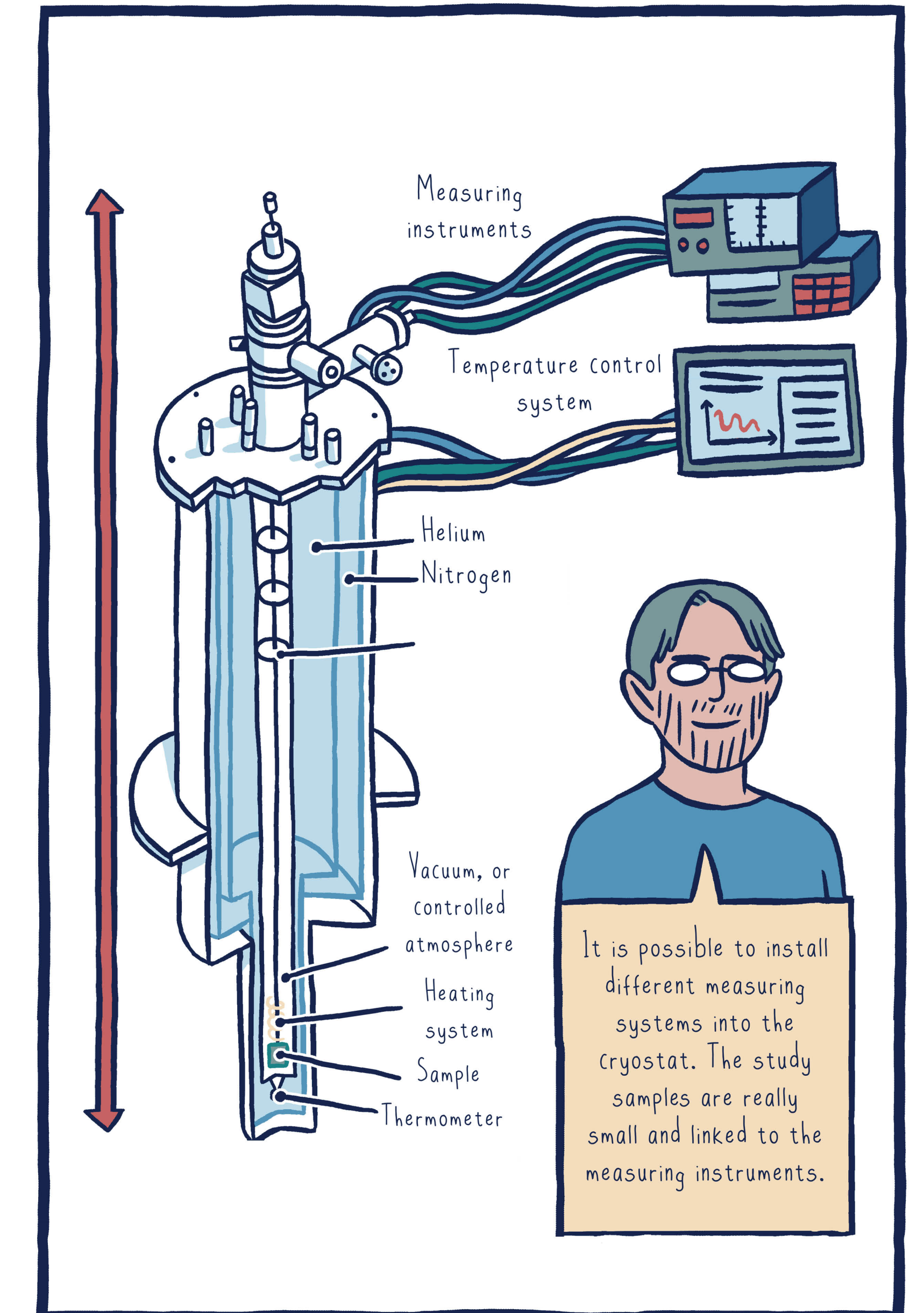
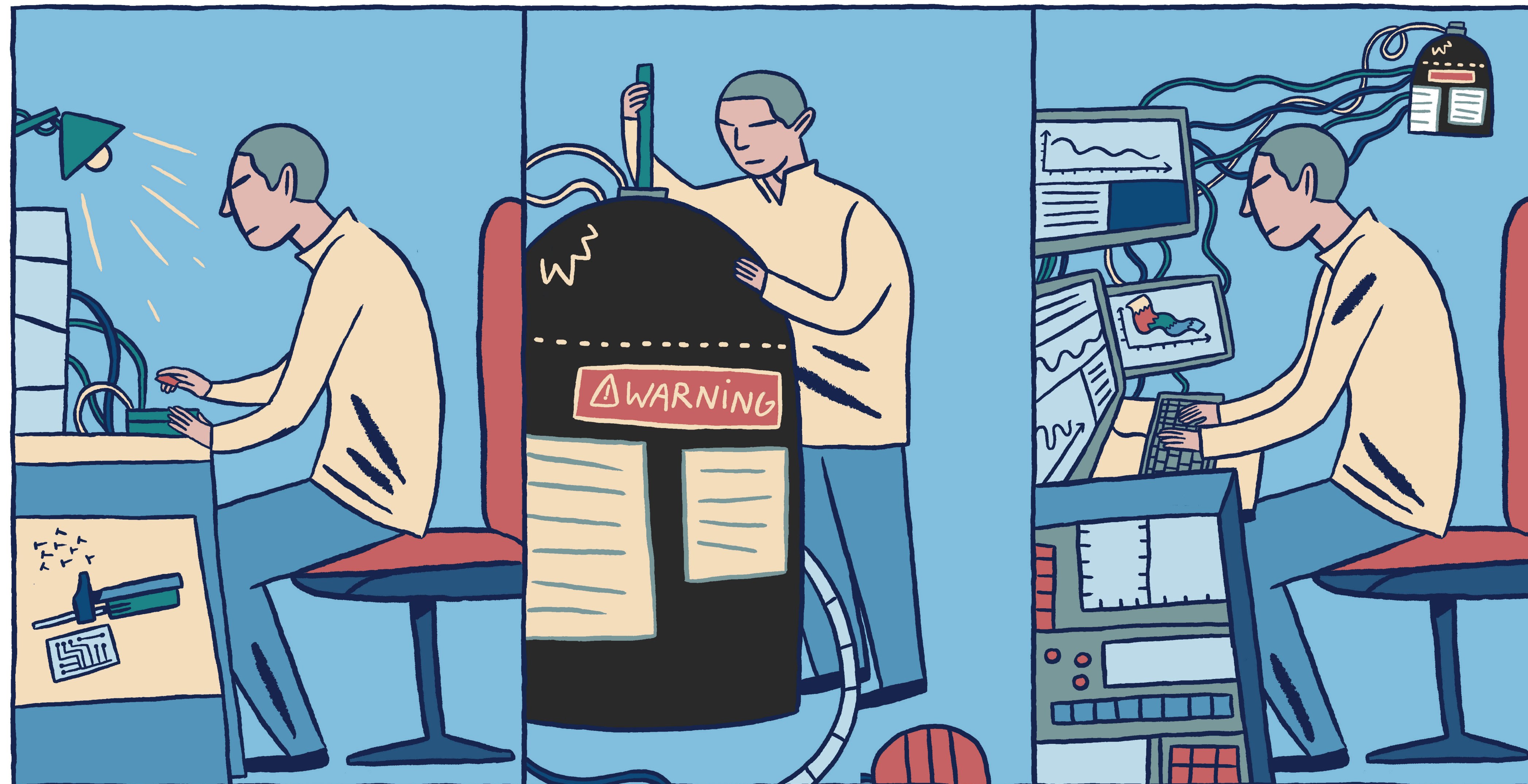
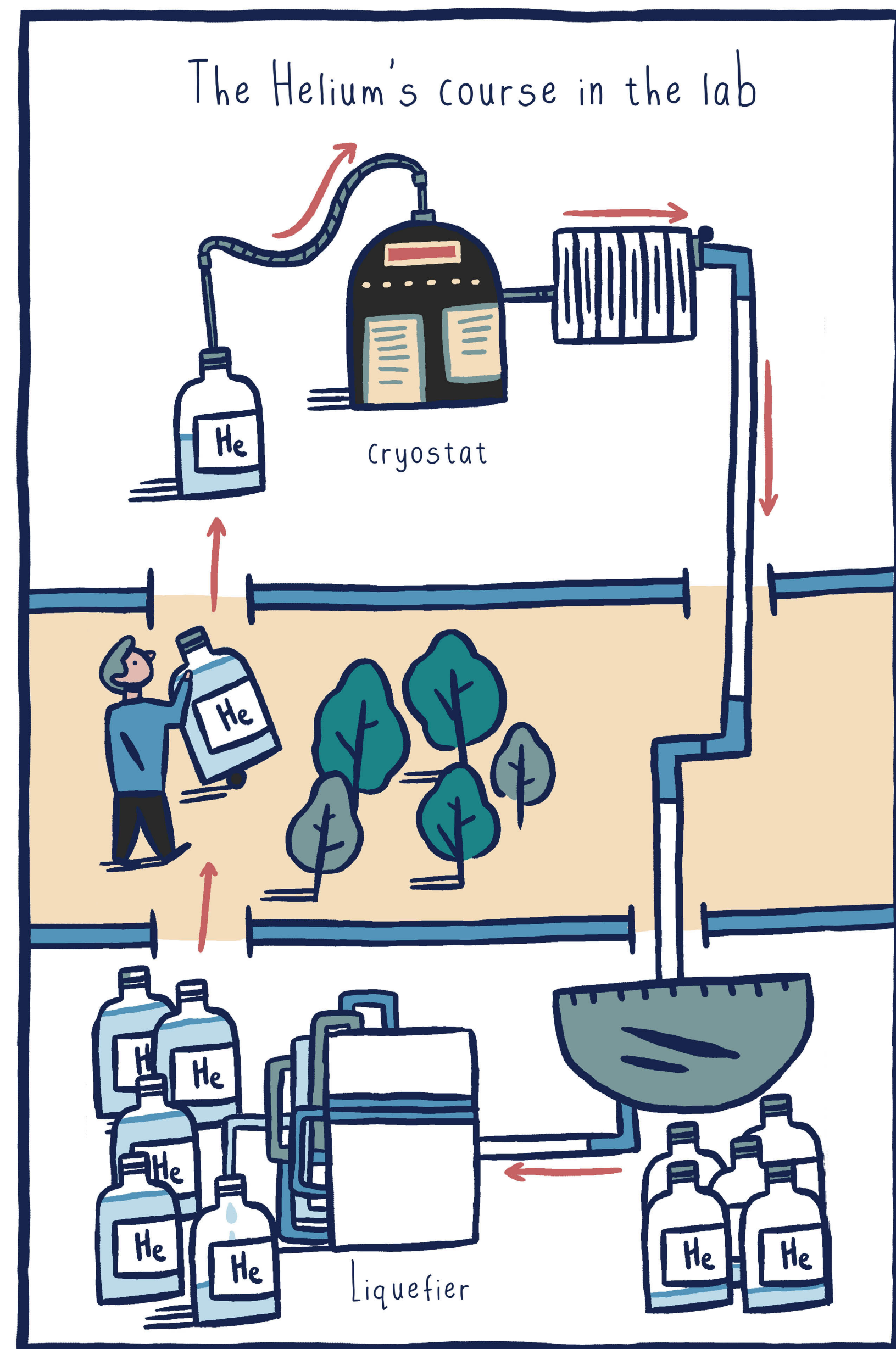
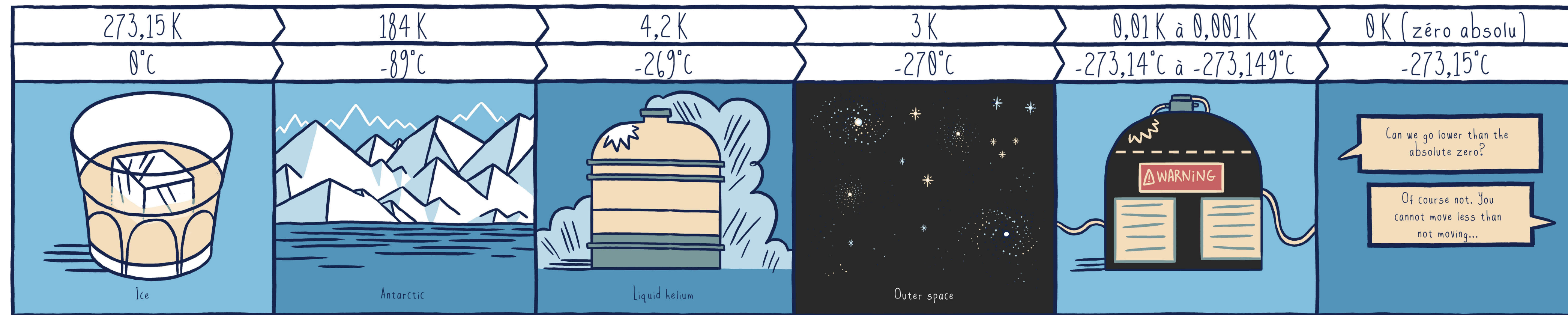
The office

The lab room

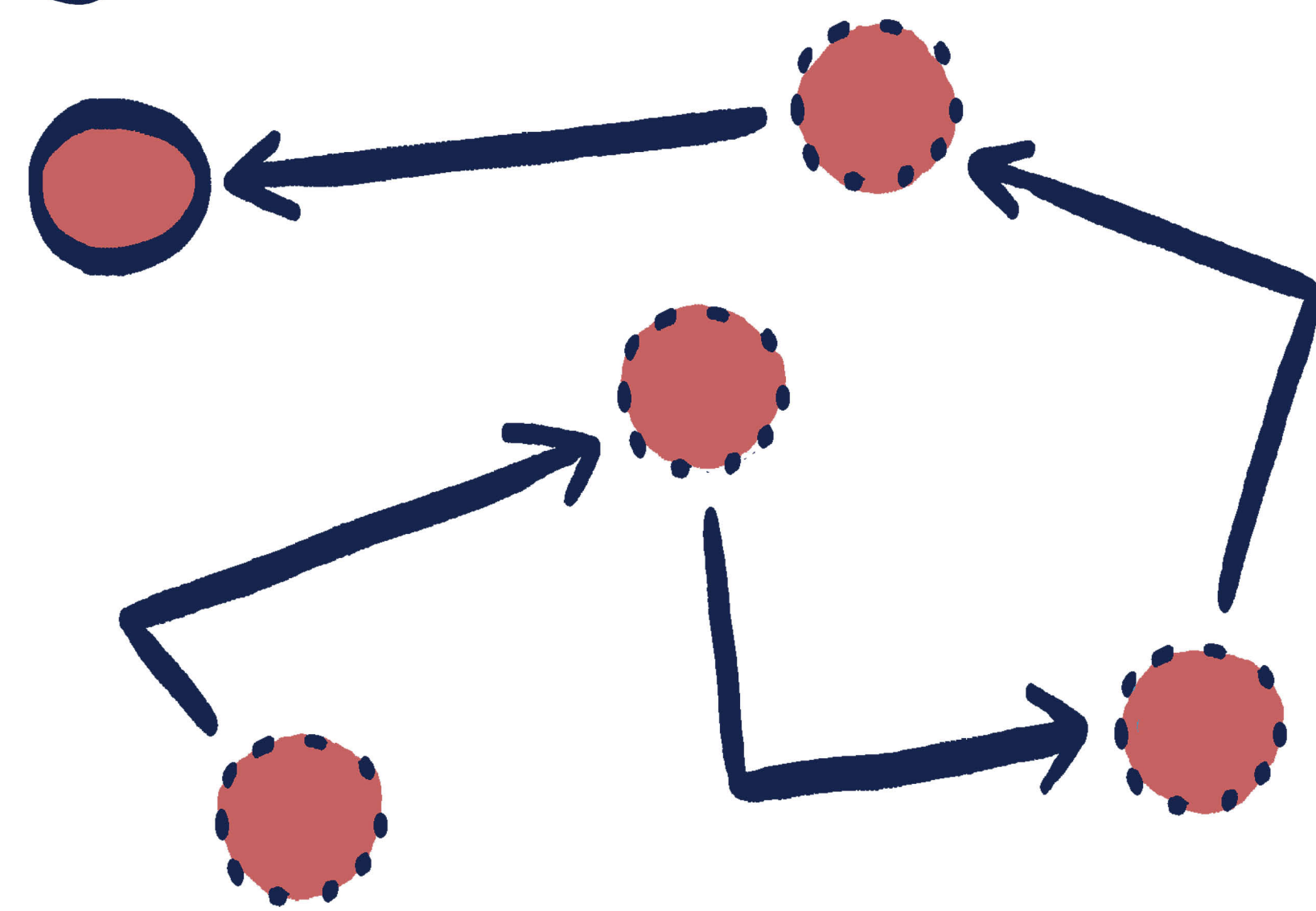
The lounge



Temperature scale



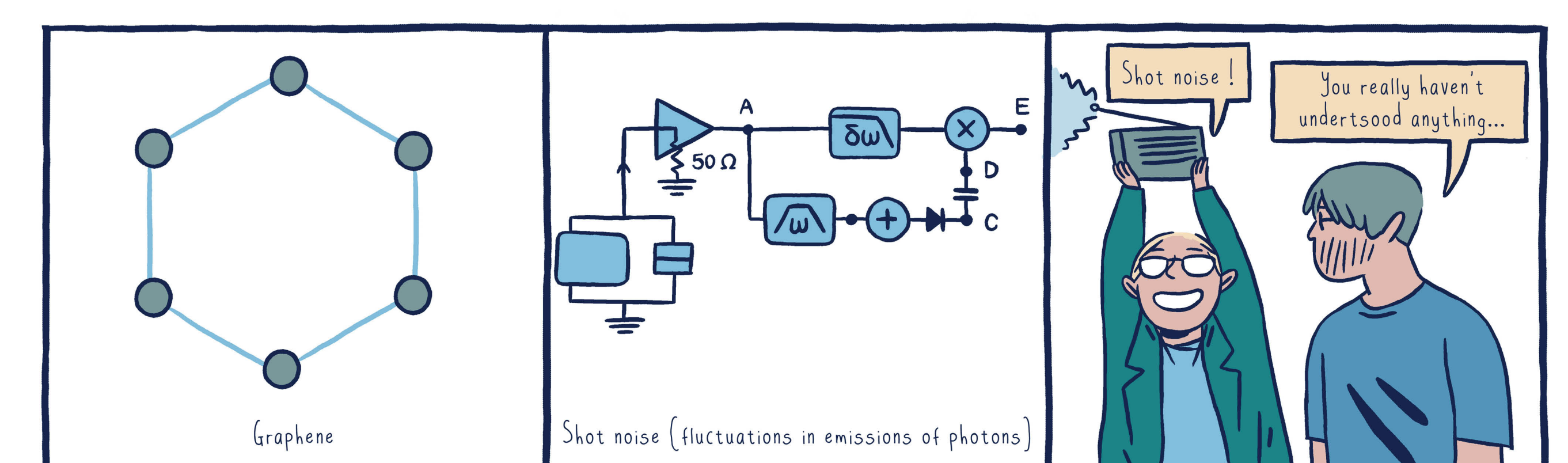
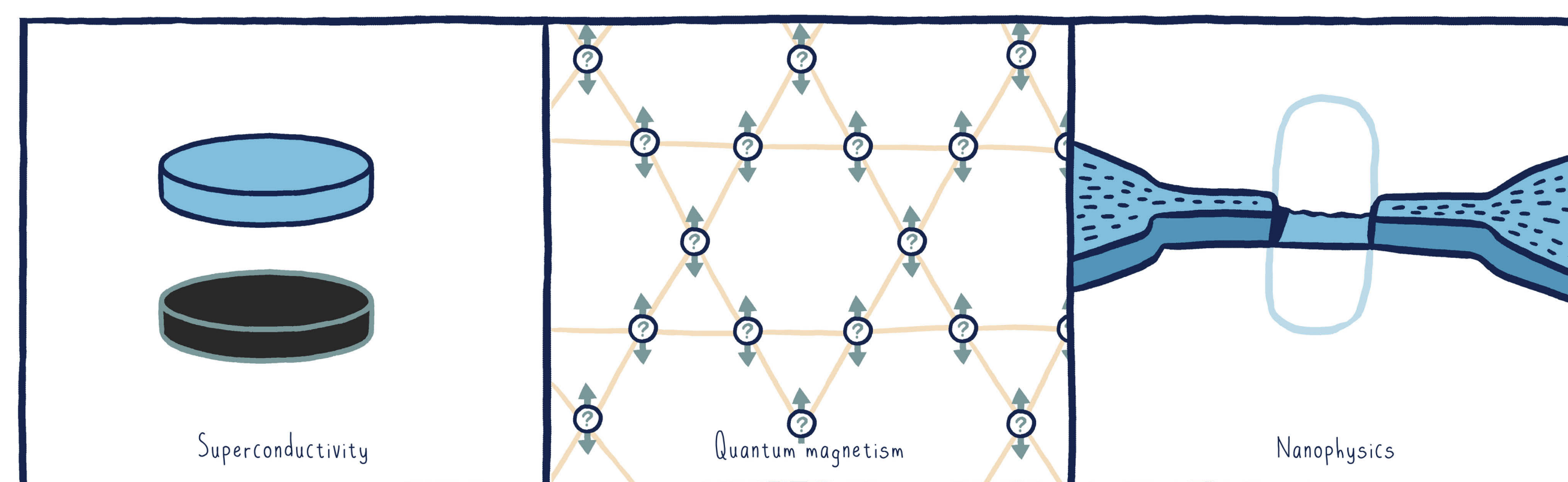
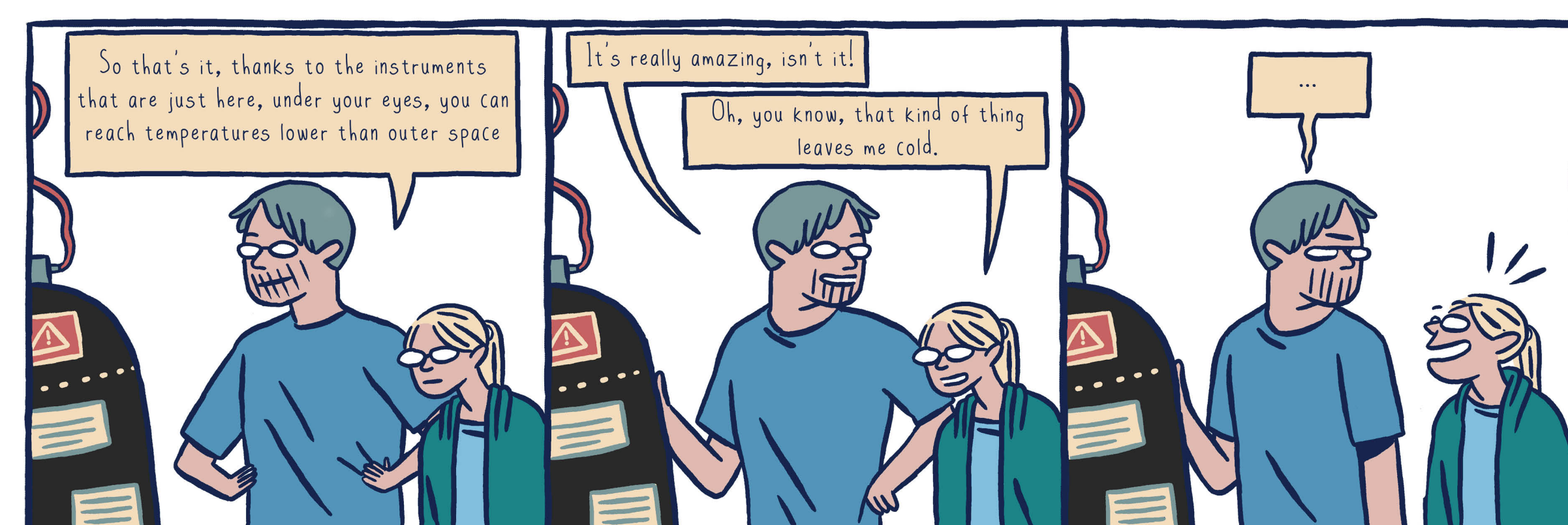
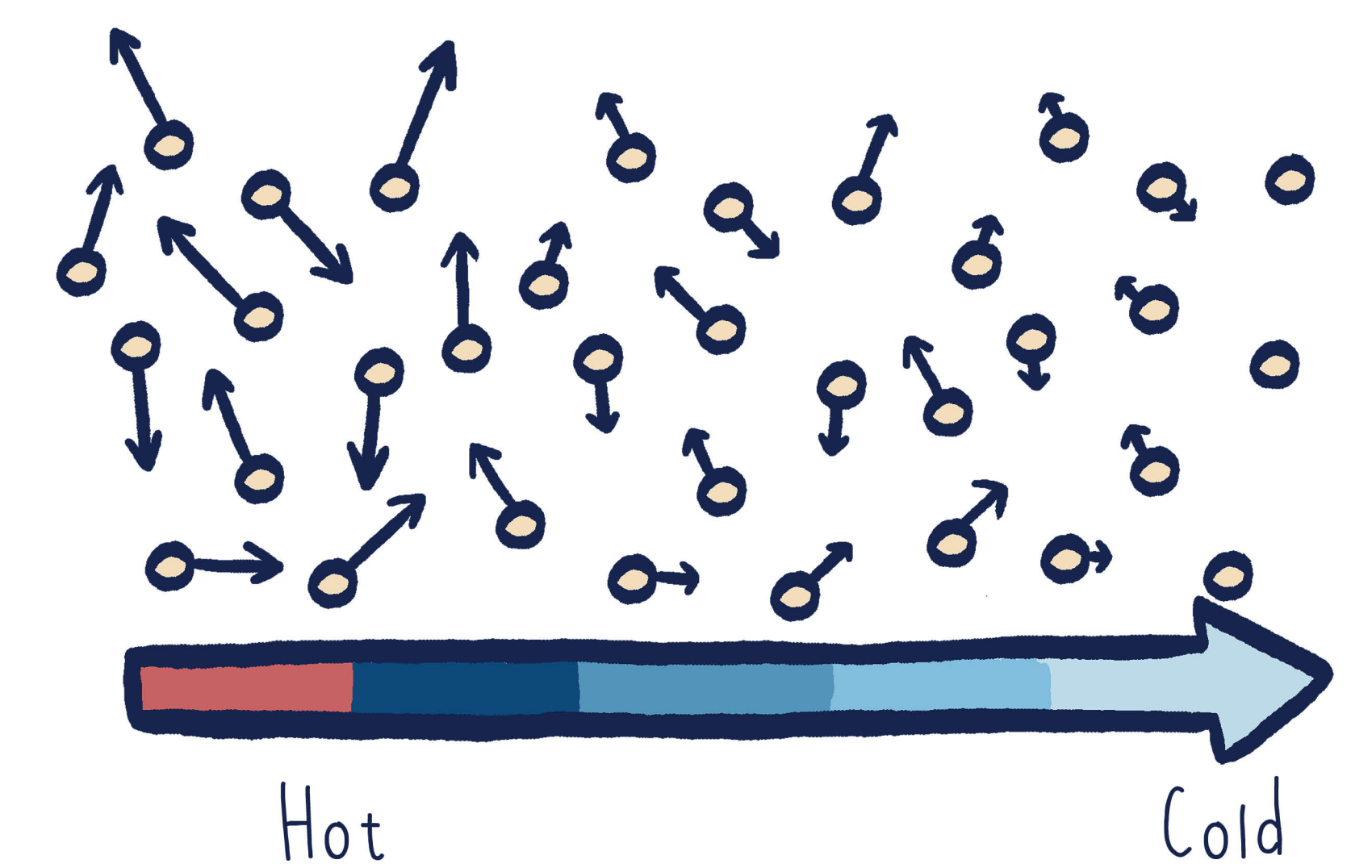
For us, temperature is a tool that we use to probe the laws of physics that govern matter.

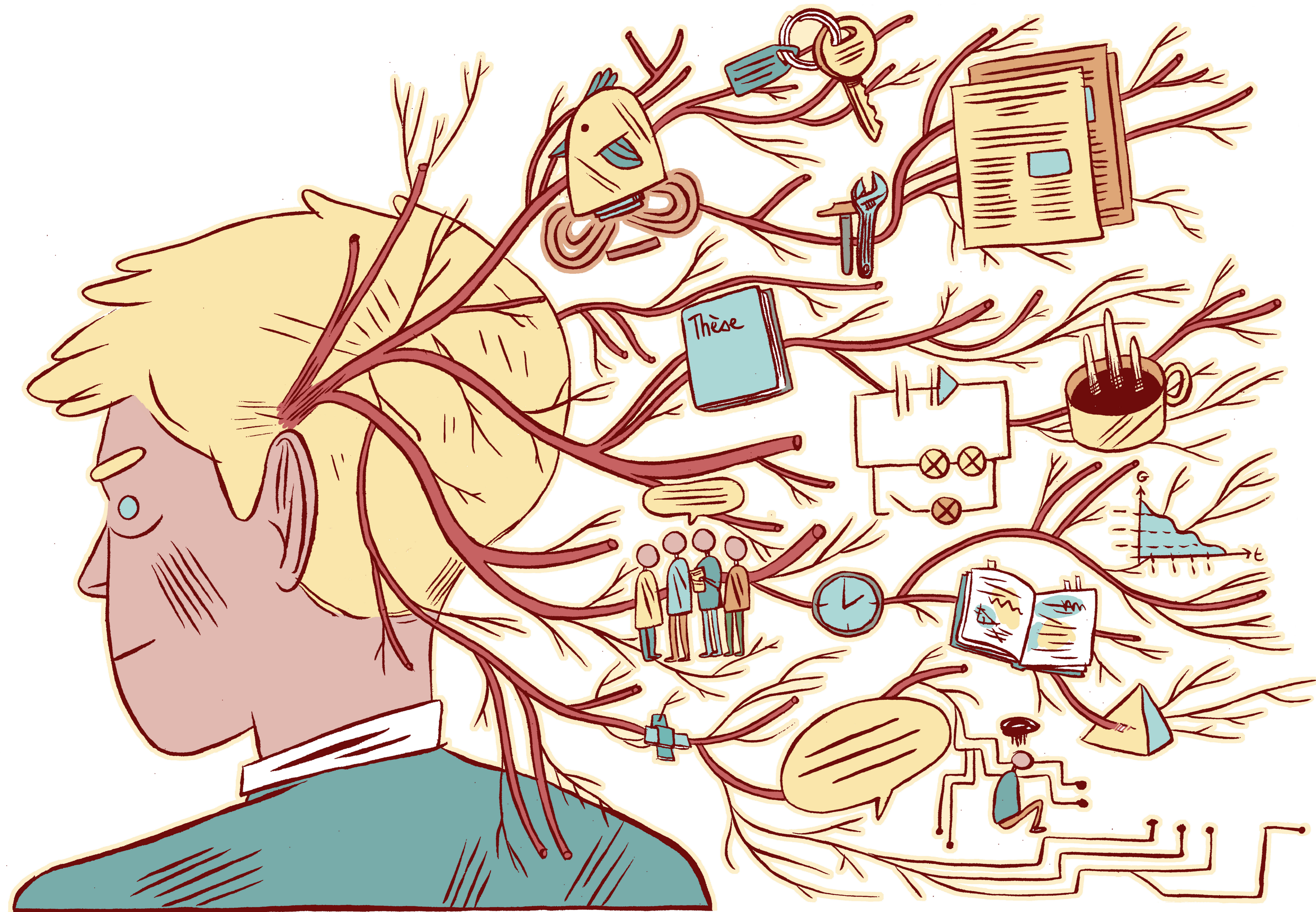


CLOSE TO ABSOLUTE ZERO

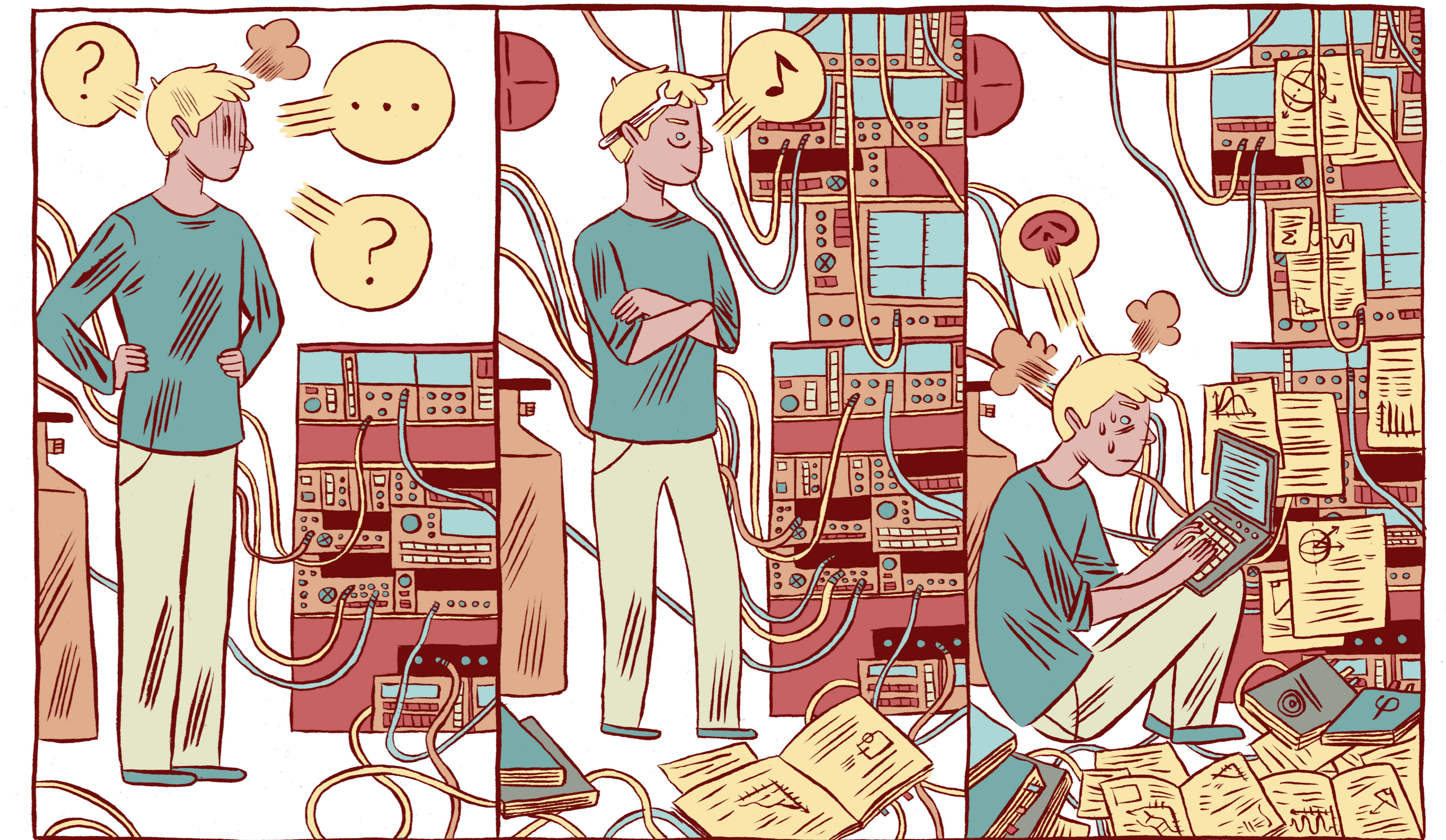
In order to better understand the properties of certain materials, the researchers sometimes have to cool them to very low temperatures. The materials then sometimes show unsuspected behaviors.

In the lab, we manage to get very close to the absolute zero. Some of the temperatures we get are even colder than in outer space!

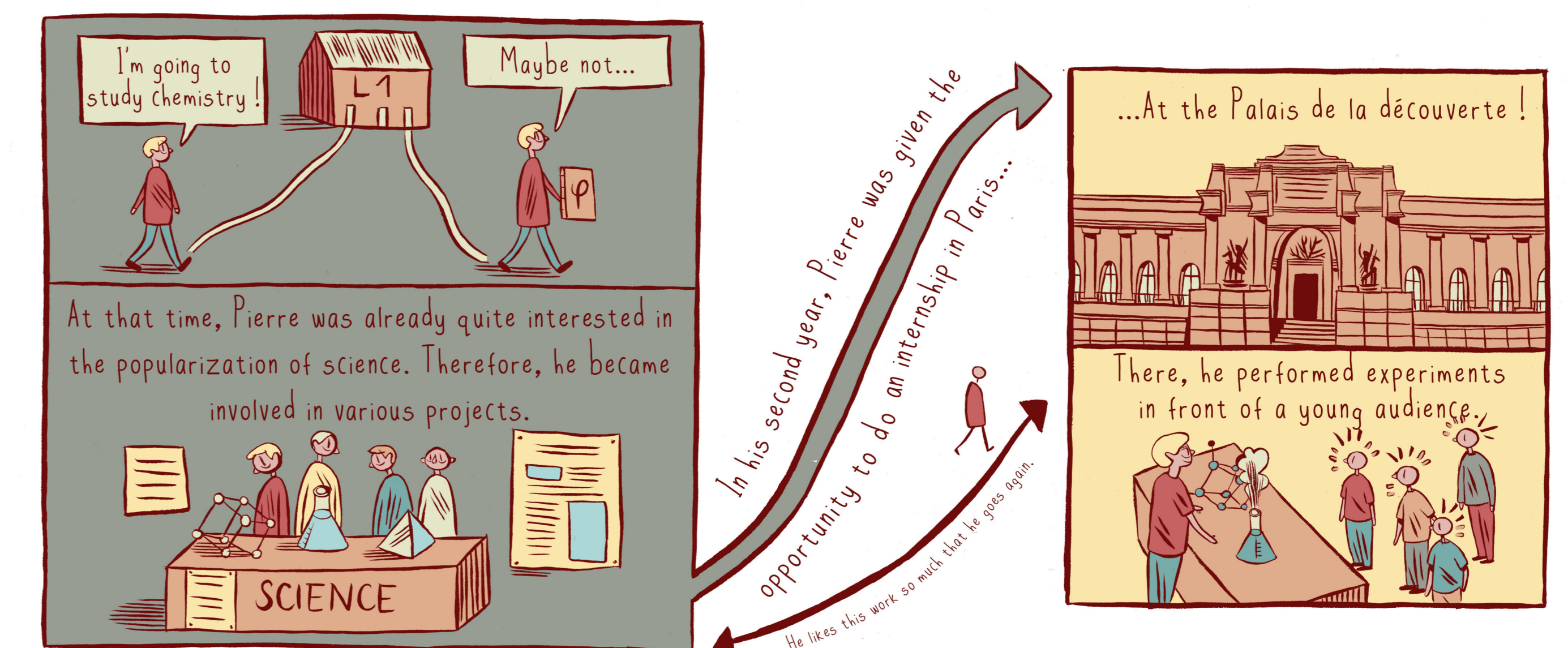




The different steps of a PhD

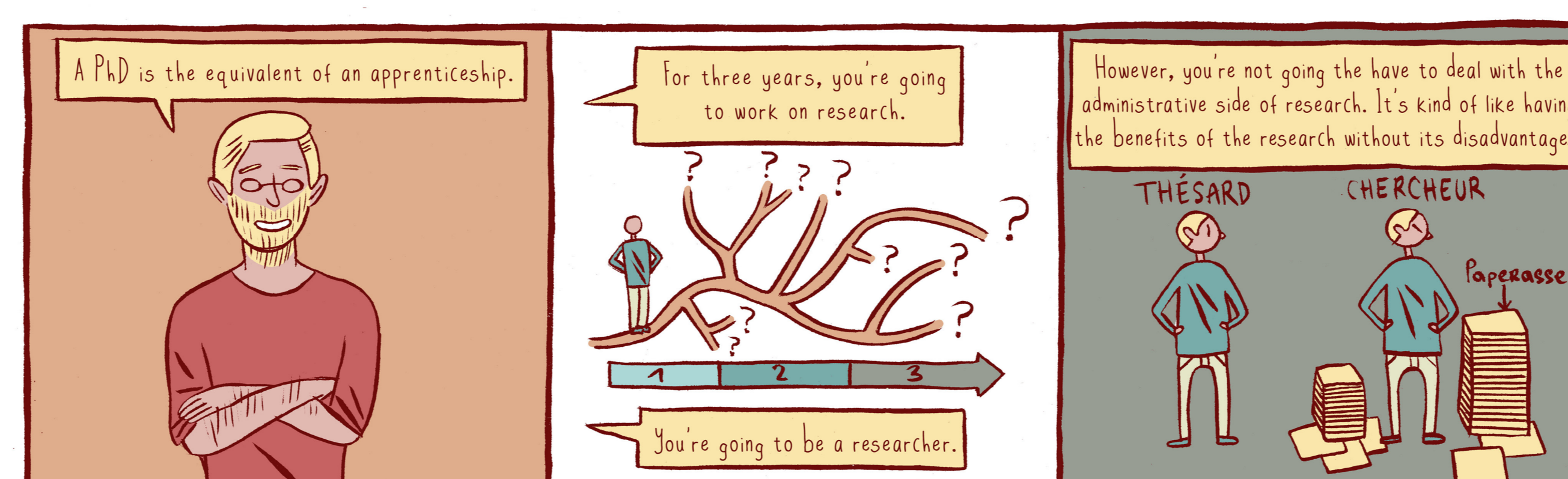


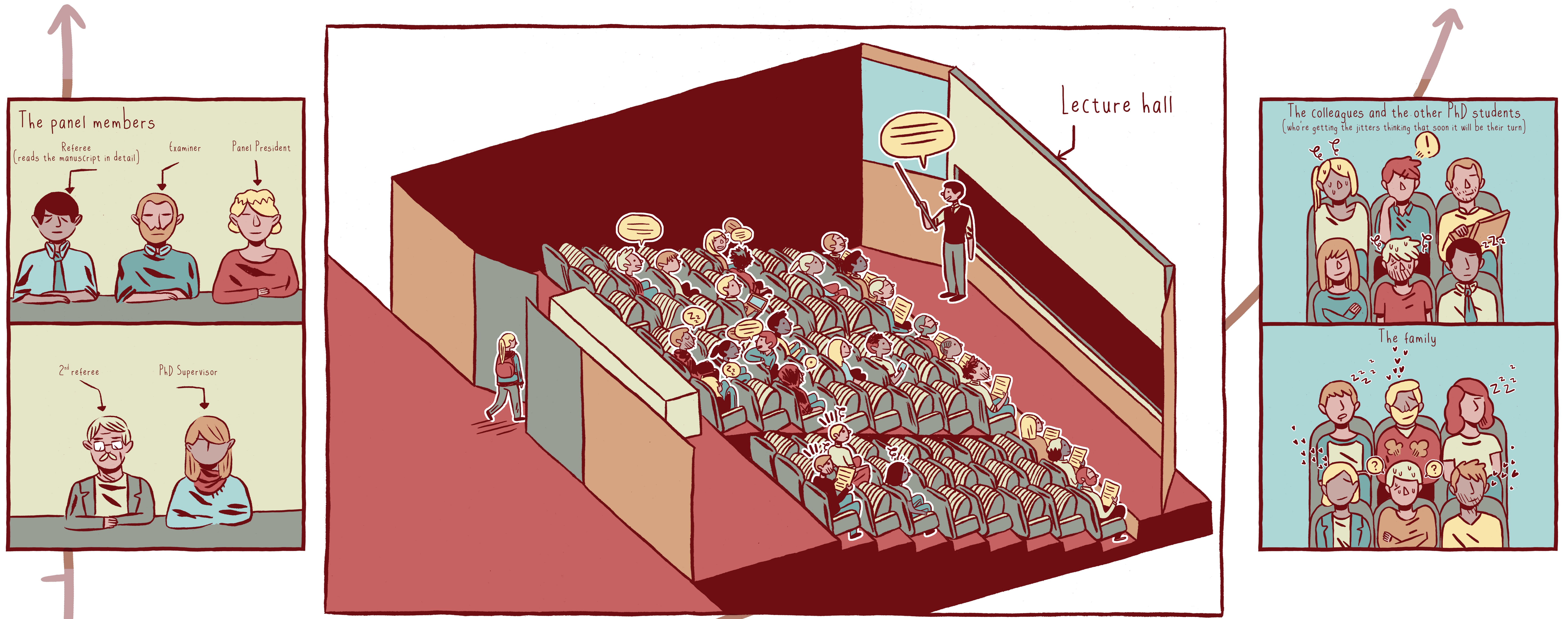
An exemple of an academic path



THE PHD STUDENT

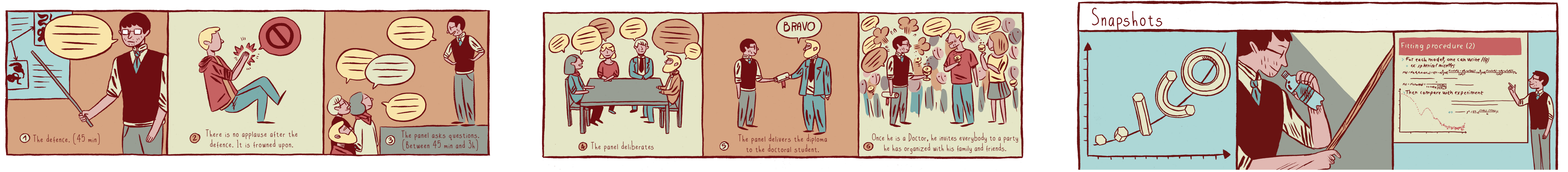
After University, some students choose to do a PhD. For a few years, they are going to learn how to be a researcher and they will try do make new discoveries.





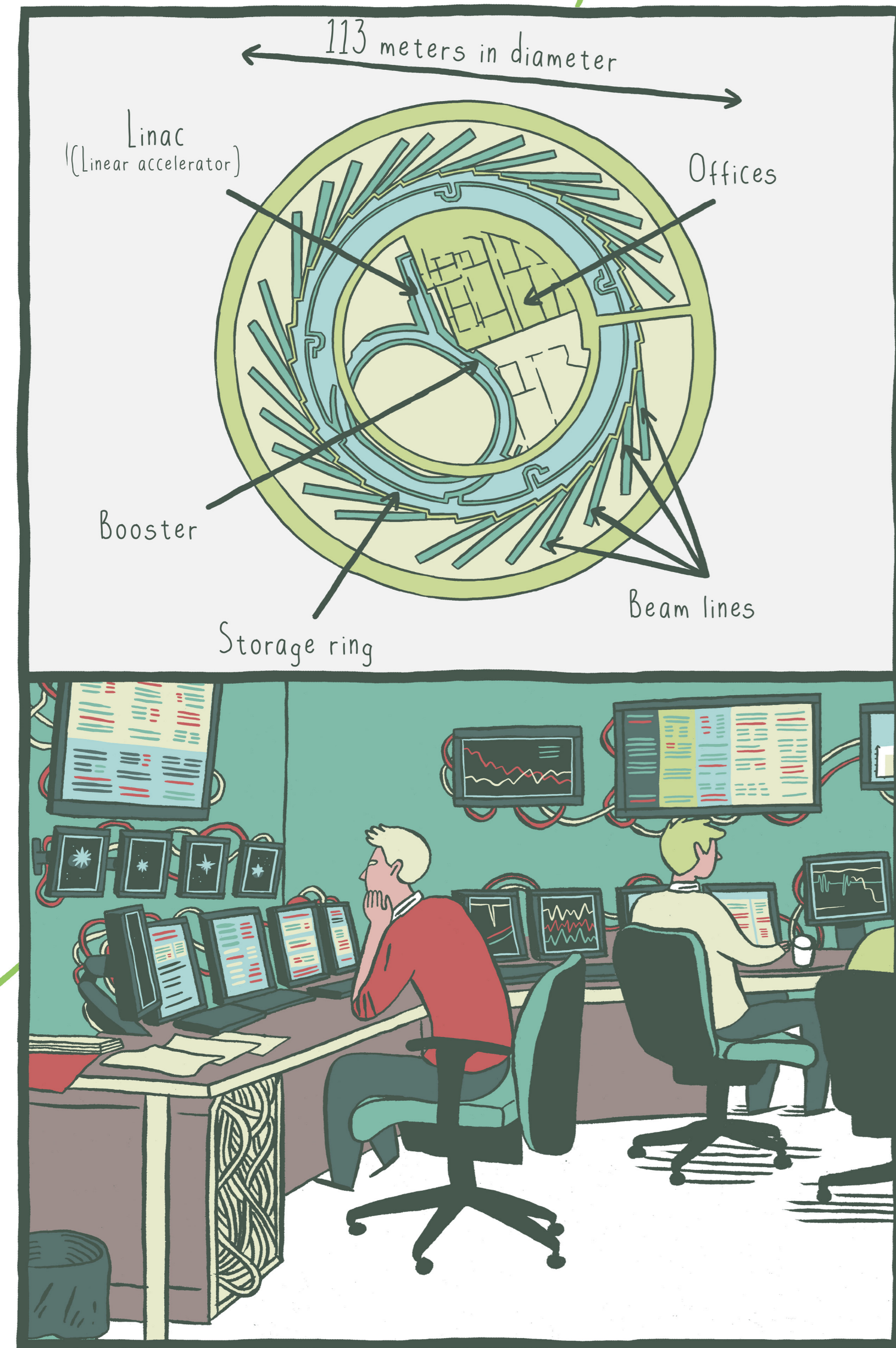
THE PHD DEFENSE

At the end of their PhD, the students write a manuscript and then present their results to a panel of researchers. If everything goes well, they graduate.

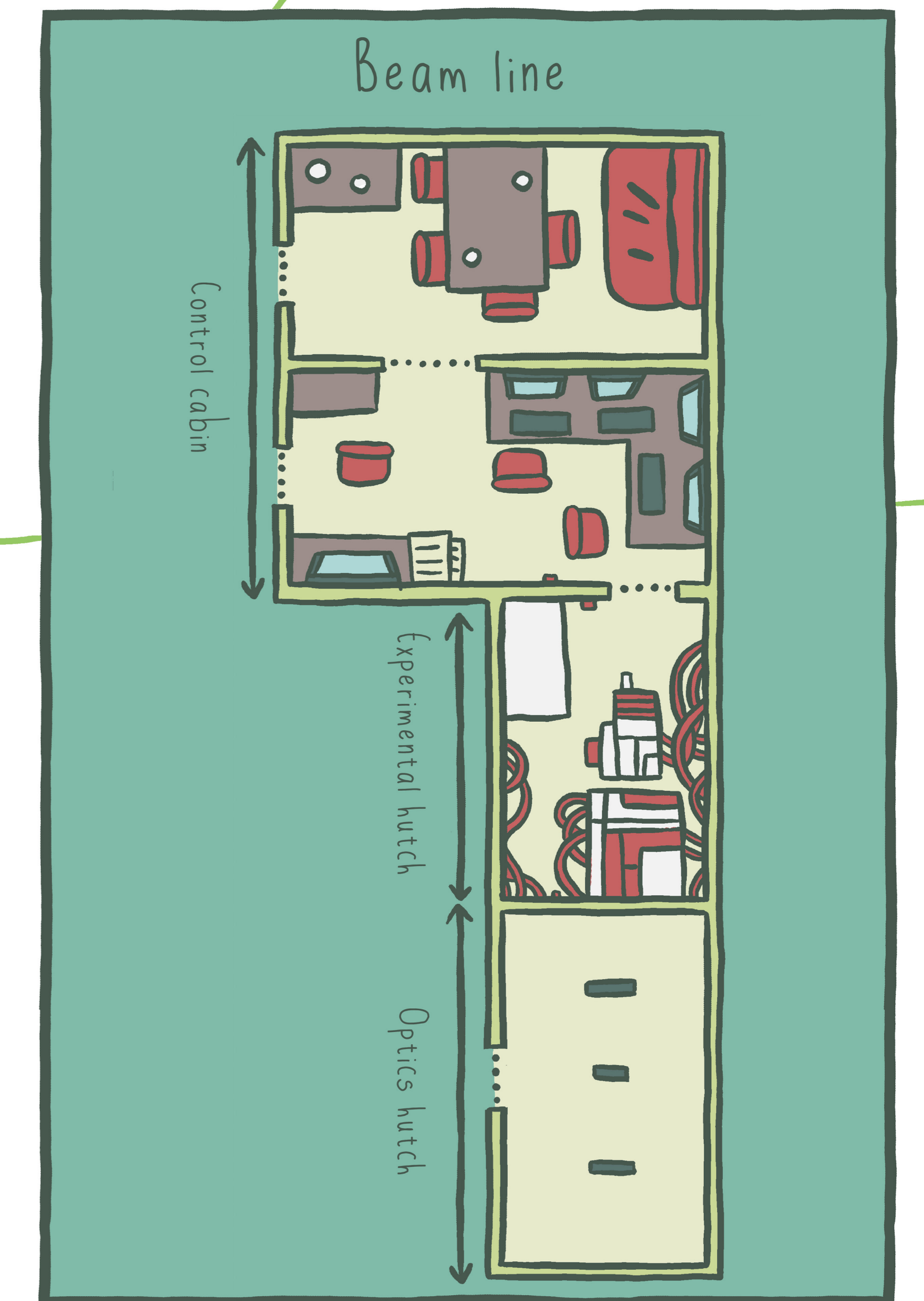
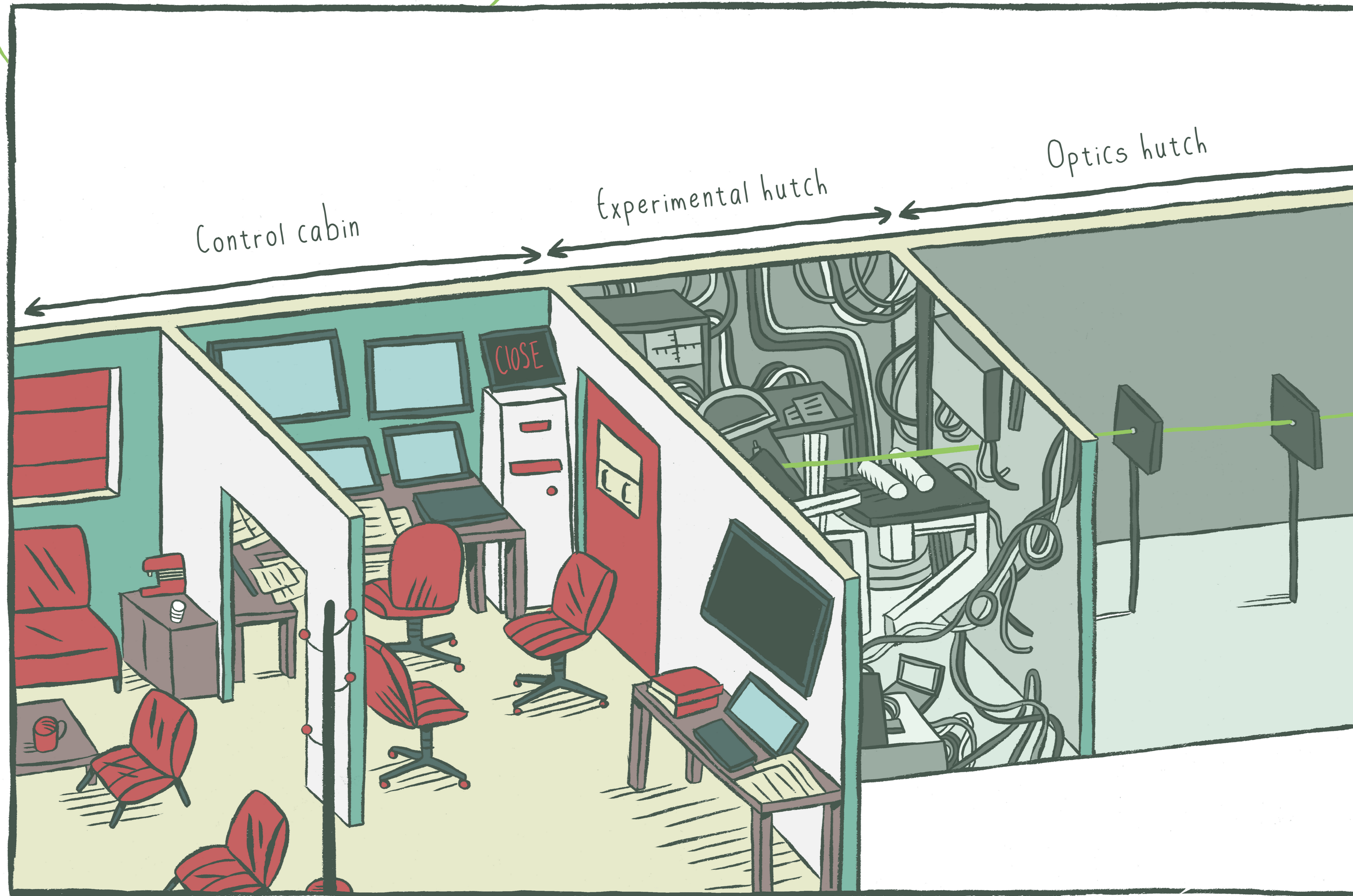


Snapshots

The synchrotron from above



The monitoring room



One of the experiment of the synchrotron

A LAB ROOM IN A BIG INSTRUMENT

Some of the experiments need large scale facilities such as the synchrotron. The researchers share such place and have to work in a limited amount of time. Sometimes, they only get few days a year.



And, well, I worked on night shift until yesterday. So, I kind of suffer from jet lag.

But I'm fine; I'm not tired at all.



We kind of killed a sample, but we had another so everything's cool.

However, the thing is that we only have ten hours left before we have to take off...

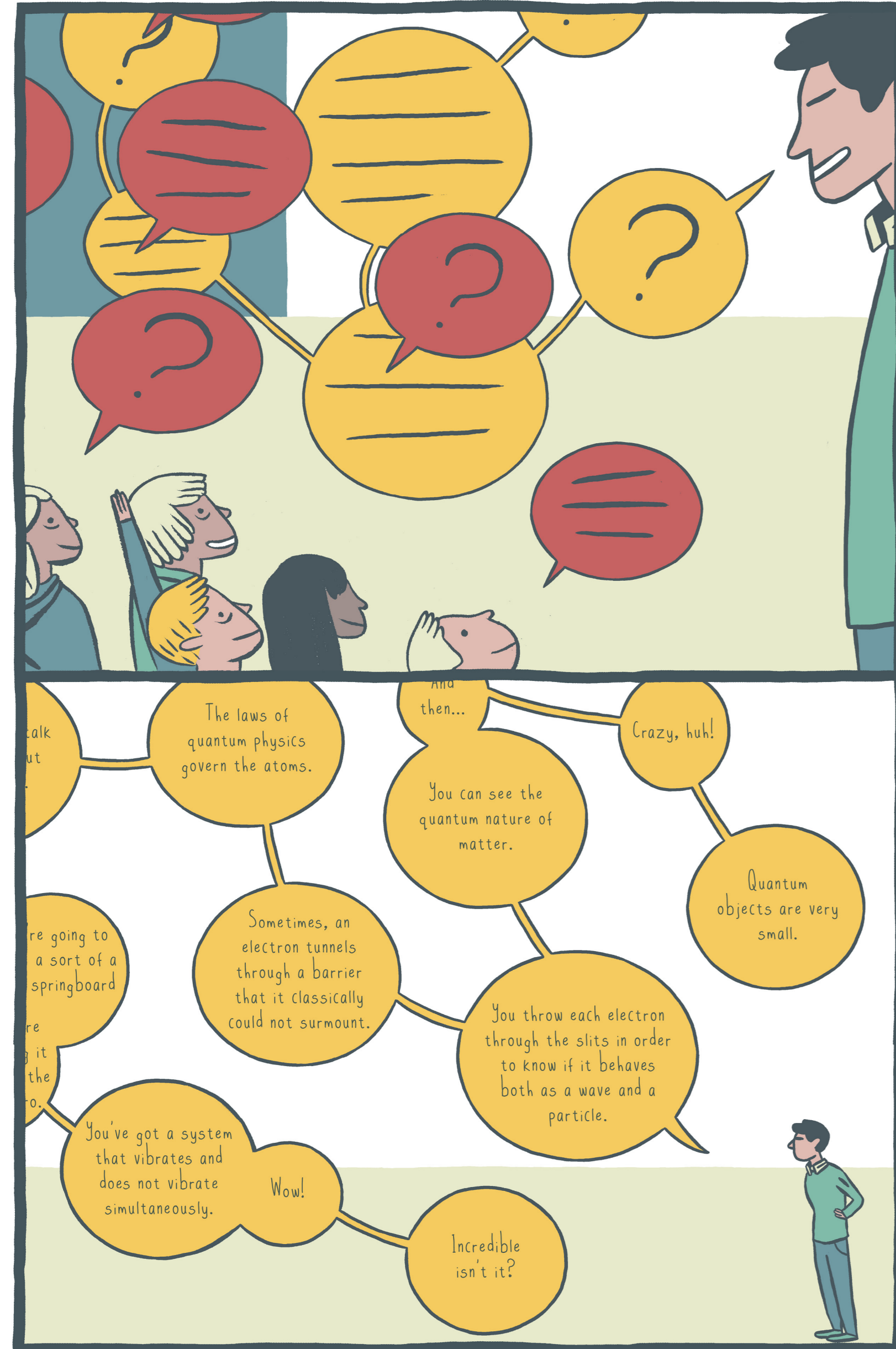
It's going to be fine.



Three hours.

Enough! or...

A conference for kids about the cold



A conference about quantum physics



The science fair at the lab

TO THE GENERAL PUBLIC

Sometimes, researchers go out of their lab in order to meet the general public and talk about their researches.

It is also the occasion for them to share their passion for physics.

Physics students make a popularization

