

## Project description

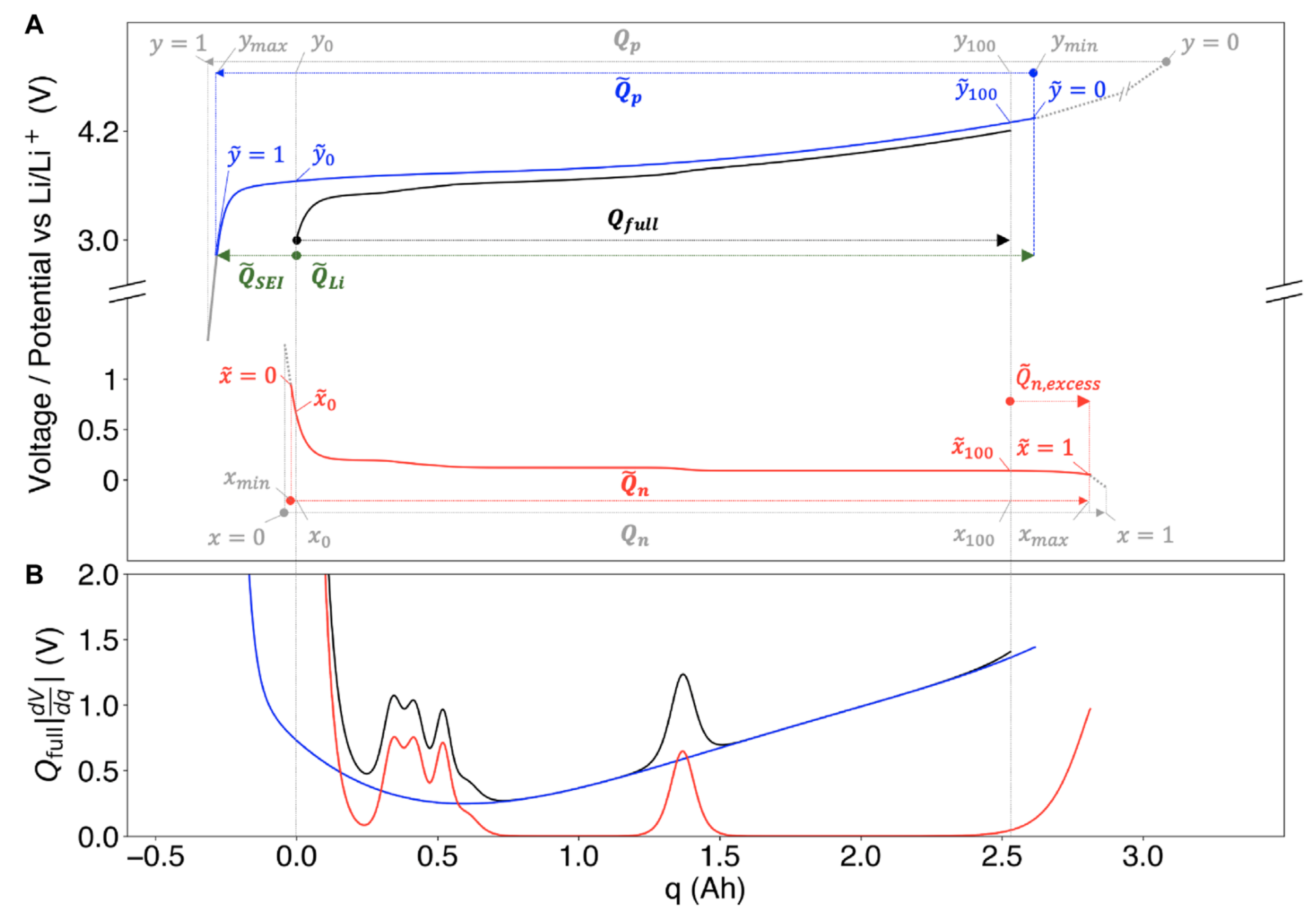
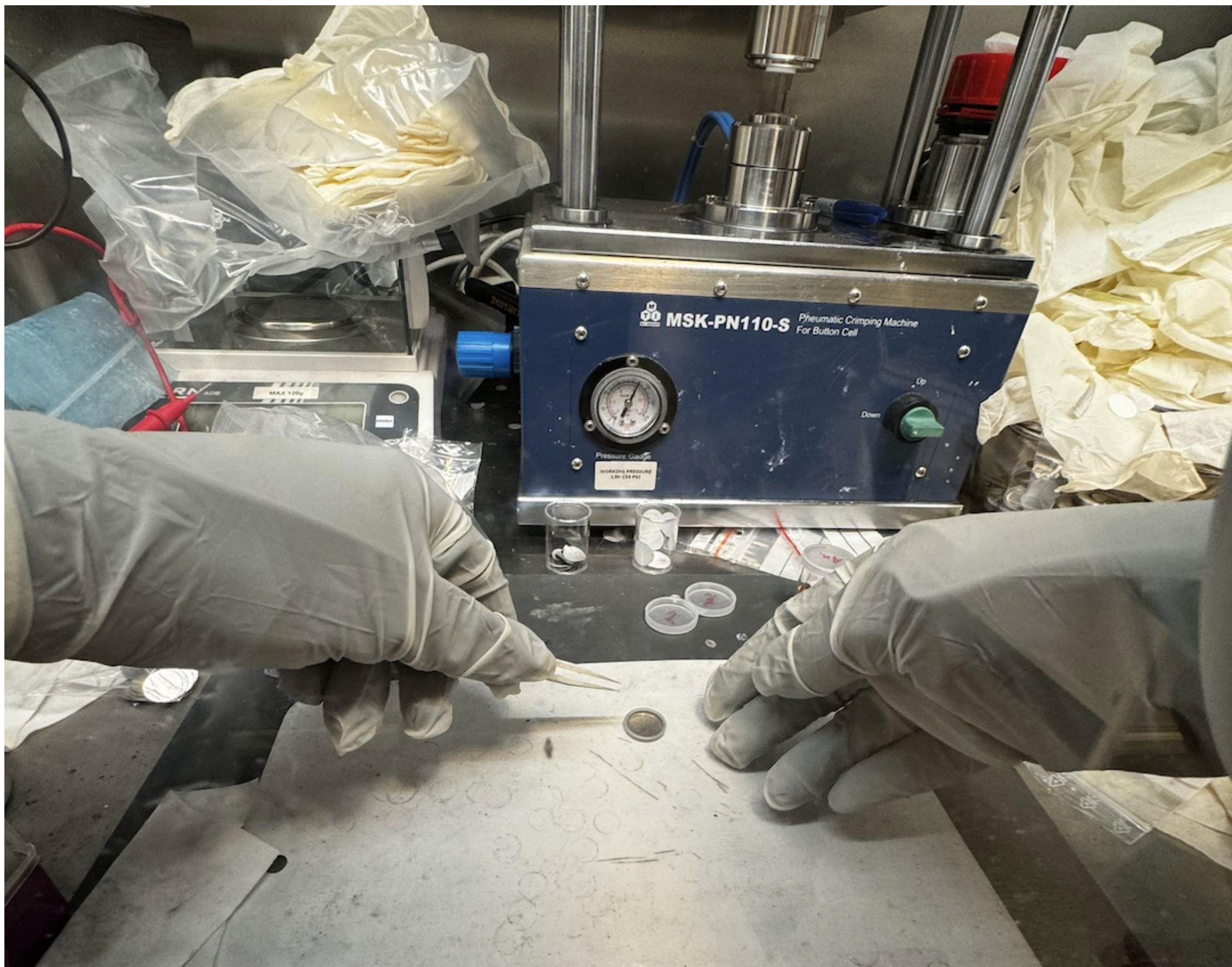
### Working title:

"Investigations on the accuracy of DVA analysis as a measure for predicting self-discharge in LIBs"

This project is based upon how differential voltage analysis can be used as a measure for predicting self-discharge.

To understand this connection, coin-cell batteries will be produced, and in a portion of the batteries metal powder will be introduced to heighten self-discharge. The recorded data from the formation process will be analyzed.

To verify our theoretical data predictions, the project will include a post storage test to inspect the practical self discharge.



## Goals

- Use of DVA to predict self discharge
- Shortened battery storage time
- Deeper understanding of LIB production

## LIBLab

In the lithium ion battery lab, the group uses commercial electrodes as a base for button cells.

The electrodes are split into anode and cathode where the active material of one side is washed off. Button cell sized leafs are punched out and assembled in the glove box.

## FREYR

Freyr is a Norwegian battery company, with a focus on large scale sustainable battery production. Freyr are located in Mo i Rana and are opening a new factory in the USA. They work on energy storage systems and eletrical vehicles. Freyr also has a large portion dedicated to researching new technology