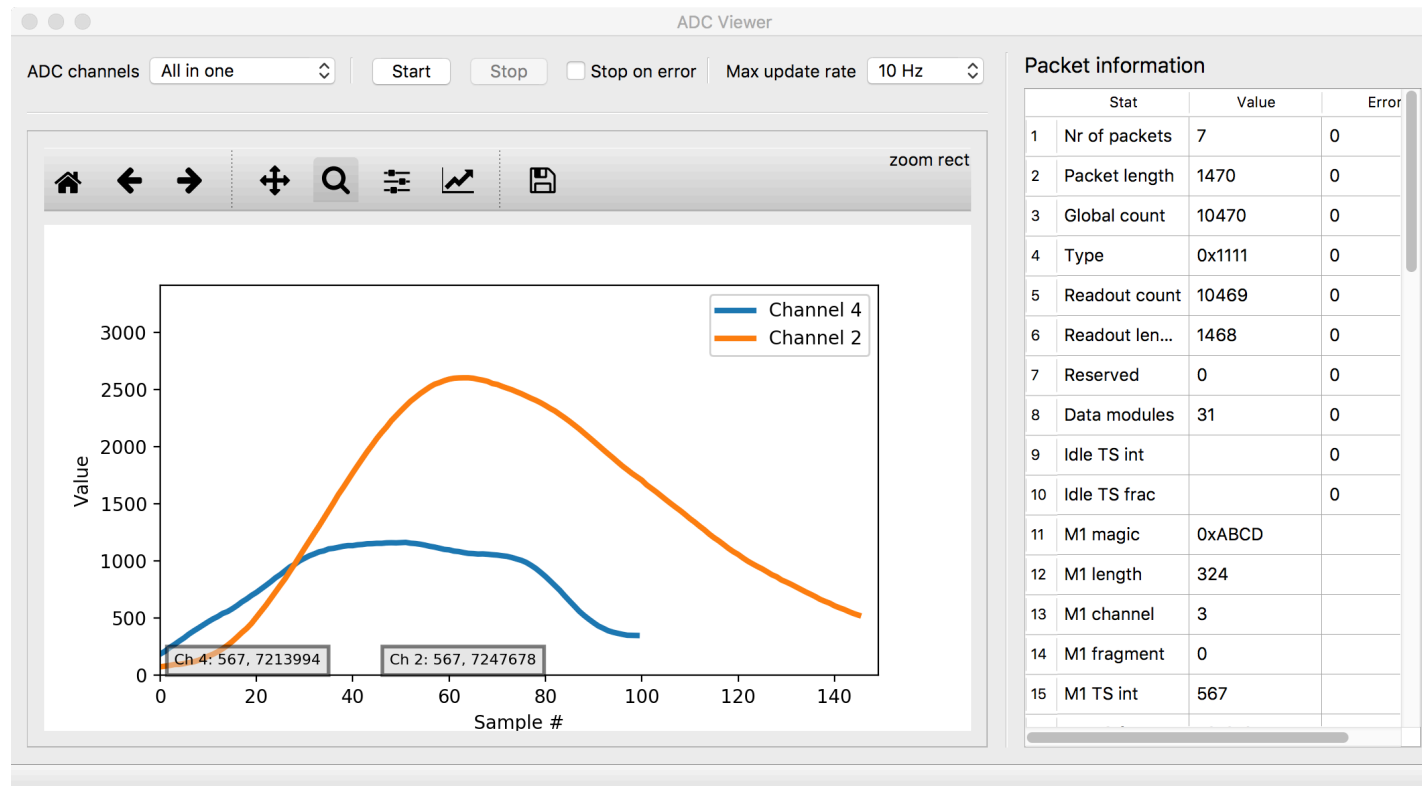# BrightnESS Fast Sample Environment

Jonas Nilsson

Current status

- Data readout is working and has been undergoing preliminary tests

- System was used at HZB

- An experimental file writing implementation exists

High priority items

To implement

- Averaging and decimation of sample data

- Serialisation of data

- File writing

- Control

Other

- Performance testing

- General testing

- Writing the deliverable

Low priority items

To implement

- Live config/control

- Live visualisation

Other

- Resolution testing

- More extensive testing

Hardware and support requirements

Hardware

- Sampling rate (maximum of 1 MSps)

- Analog input channels (3 is probably required)

- Resolution (14 ENOB would be nice)

- Interface connectors (is LEMO possible?)

Support

- Source of hardware

- Future availability of hardware

- Firmware support

- What is the time frame