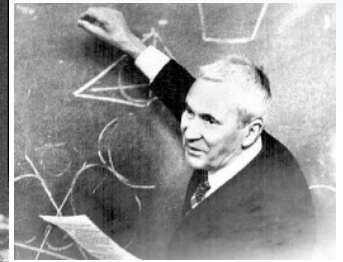
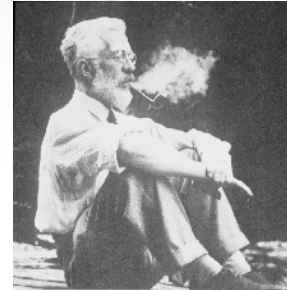
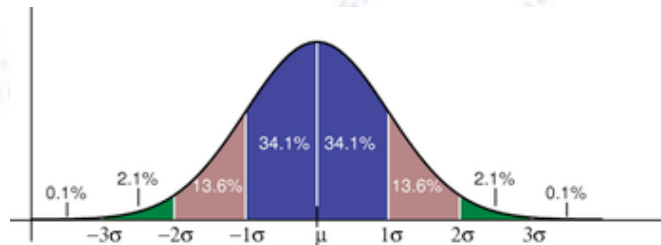


Applied ML

Potential Final Projects/Datasets



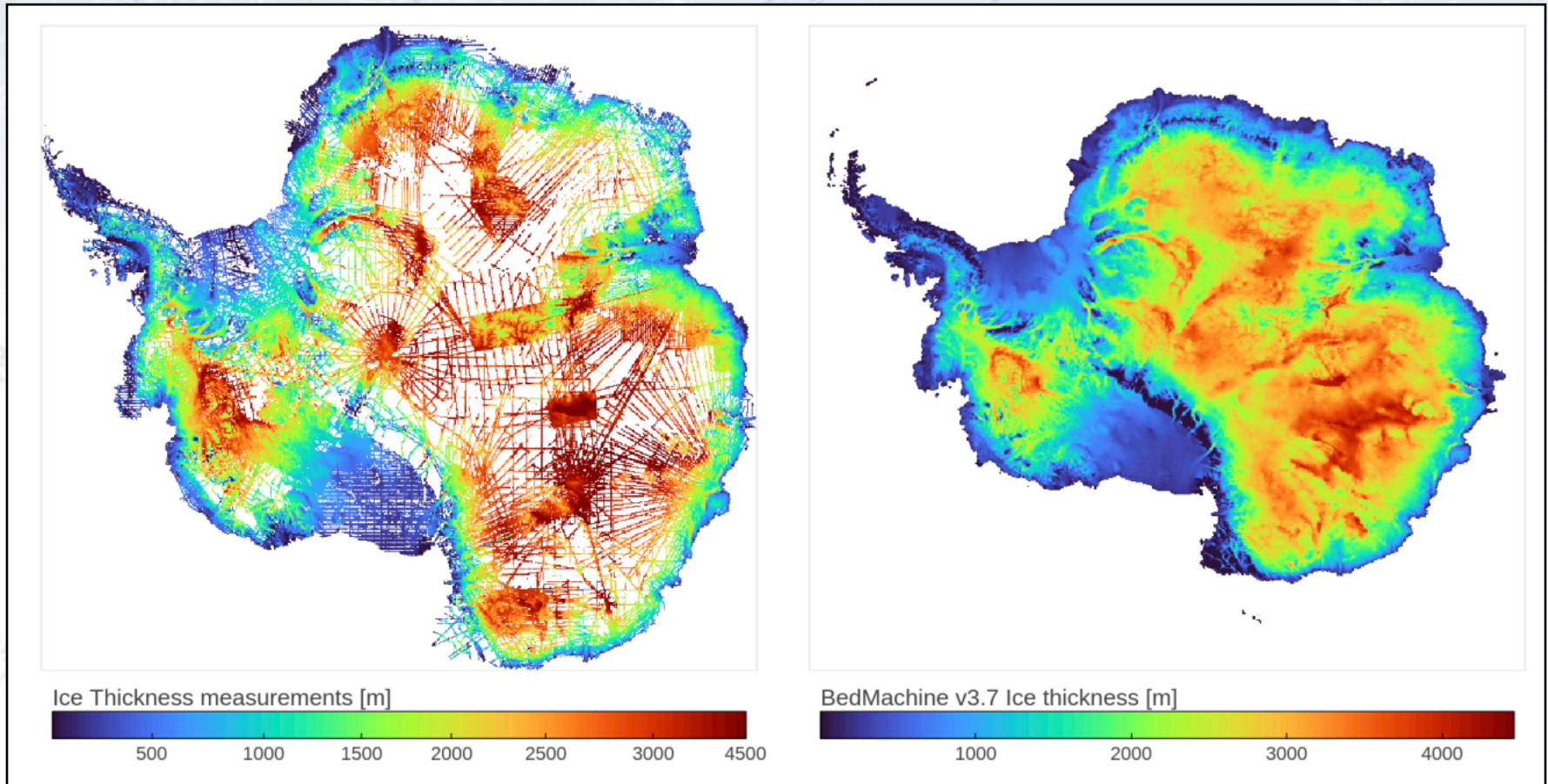
Troels C. Petersen (NBI)



"Statistics is merely a quantisation of common sense - Machine Learning is a sharpening of it!"

Size of Antarctic Ice Sheet

Based on a small fraction of labels (measurements), estimate total size.

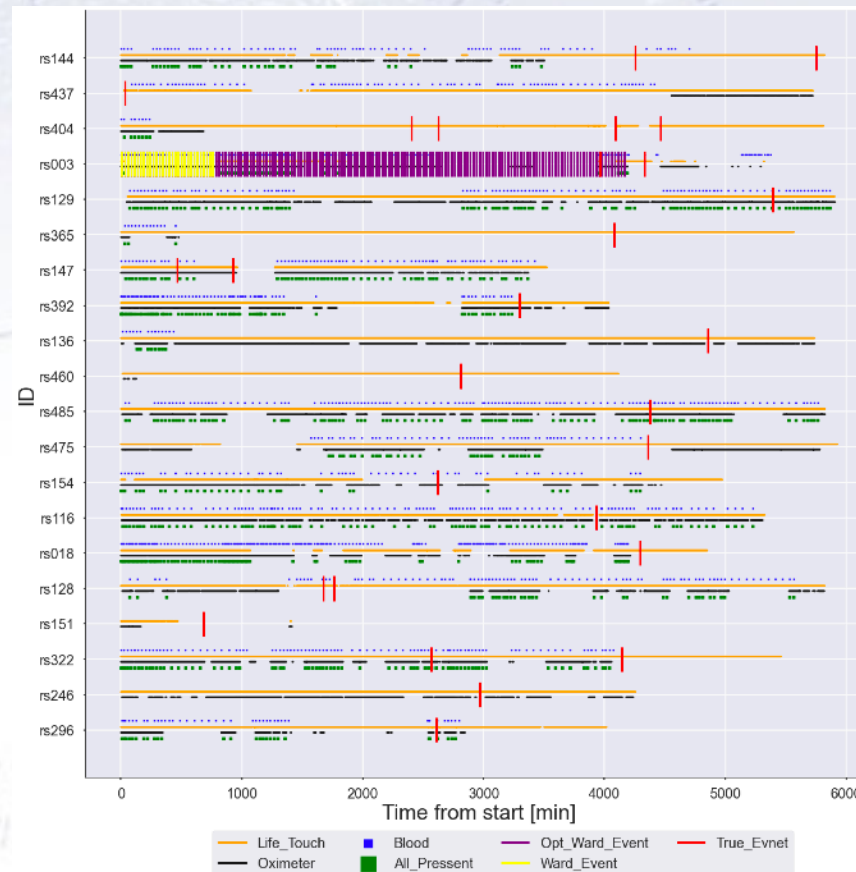


Data status: Ready here! Niccolo will be accessible on Zoom.

Data size: About 80.000.000/10.000 (?) measurements/labels, accessible format.

WARD data - Event Prediction

Based on 7 continuous patient outputs, determine if the patient is doing OK or...

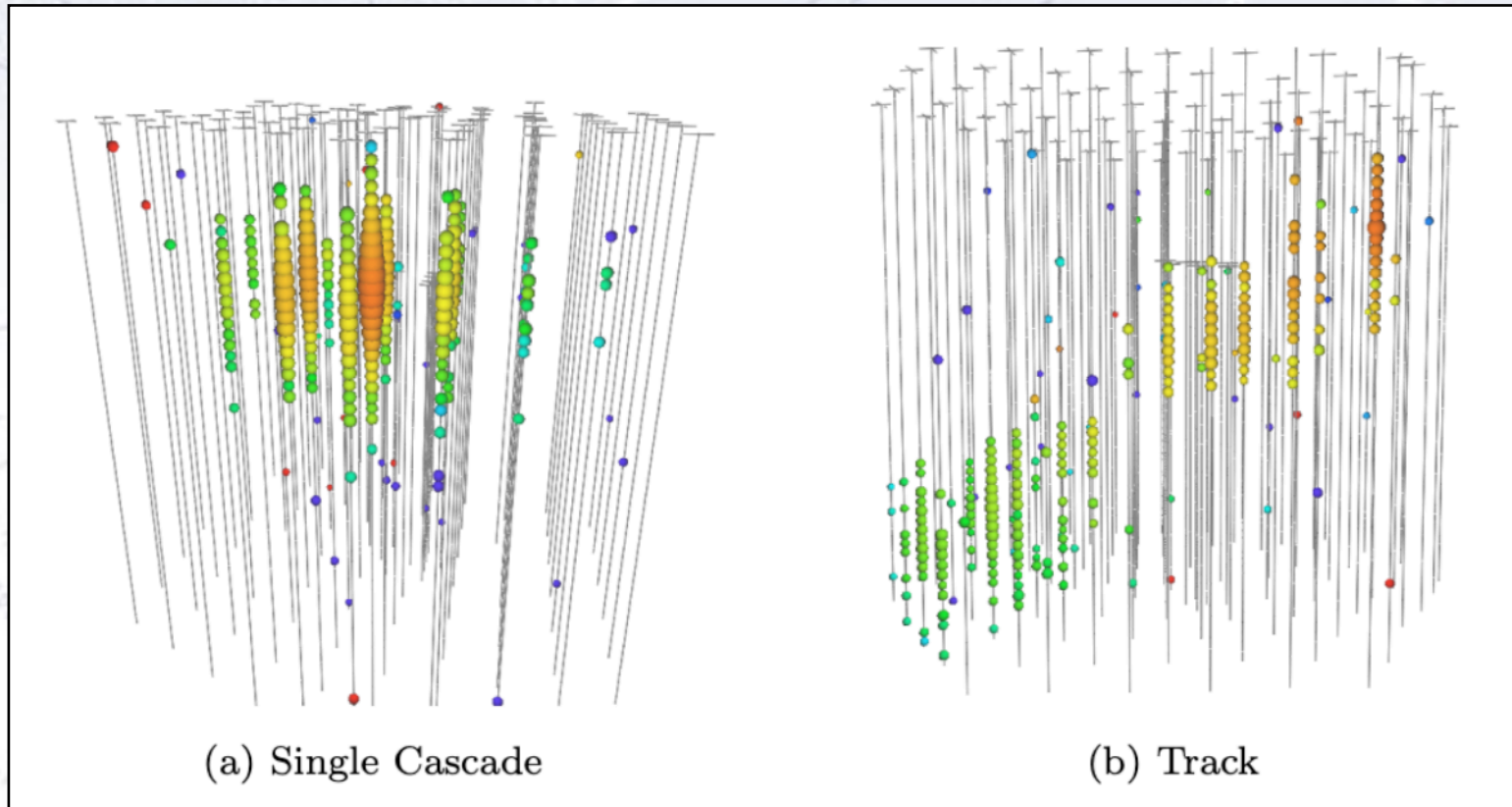


Data status: Sits on discs at NBI, i.e. ready!

Data size: 1600 patients with millions of measurements in accessible format.

Particle Physics data

Based on detector signals (8-80000 pulses with 6 features each), determine the type of signal, its energy, direction, interaction vertex, etc.



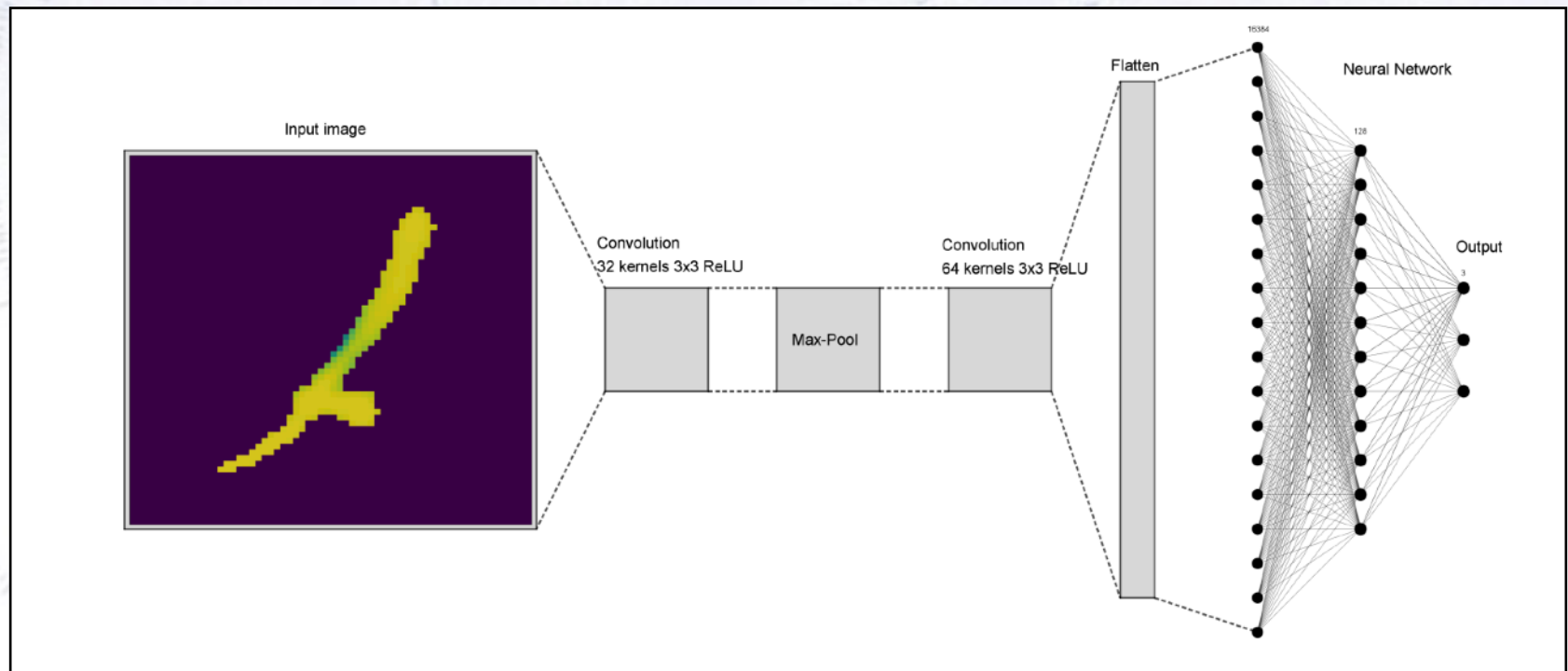
Data status: Sits on discs at NBI, i.e. ready!

Data size: Real+Simulated millions of events in (semi-)accessible format.

New Detector Type Data

A new type of detector developed by Buenos Aires and Stanford, that can measure single electron charges “perfectly”.

Subjected to radiation of all types, which is to be segmented and classified.



Data status: Sits on discs in physics departs of Univ. of Buenos Aires.

Data size: Real+Simulated 100-500 large images with ~100 interactions in each.



Bonus Slides



Let me tell you about this exam!