



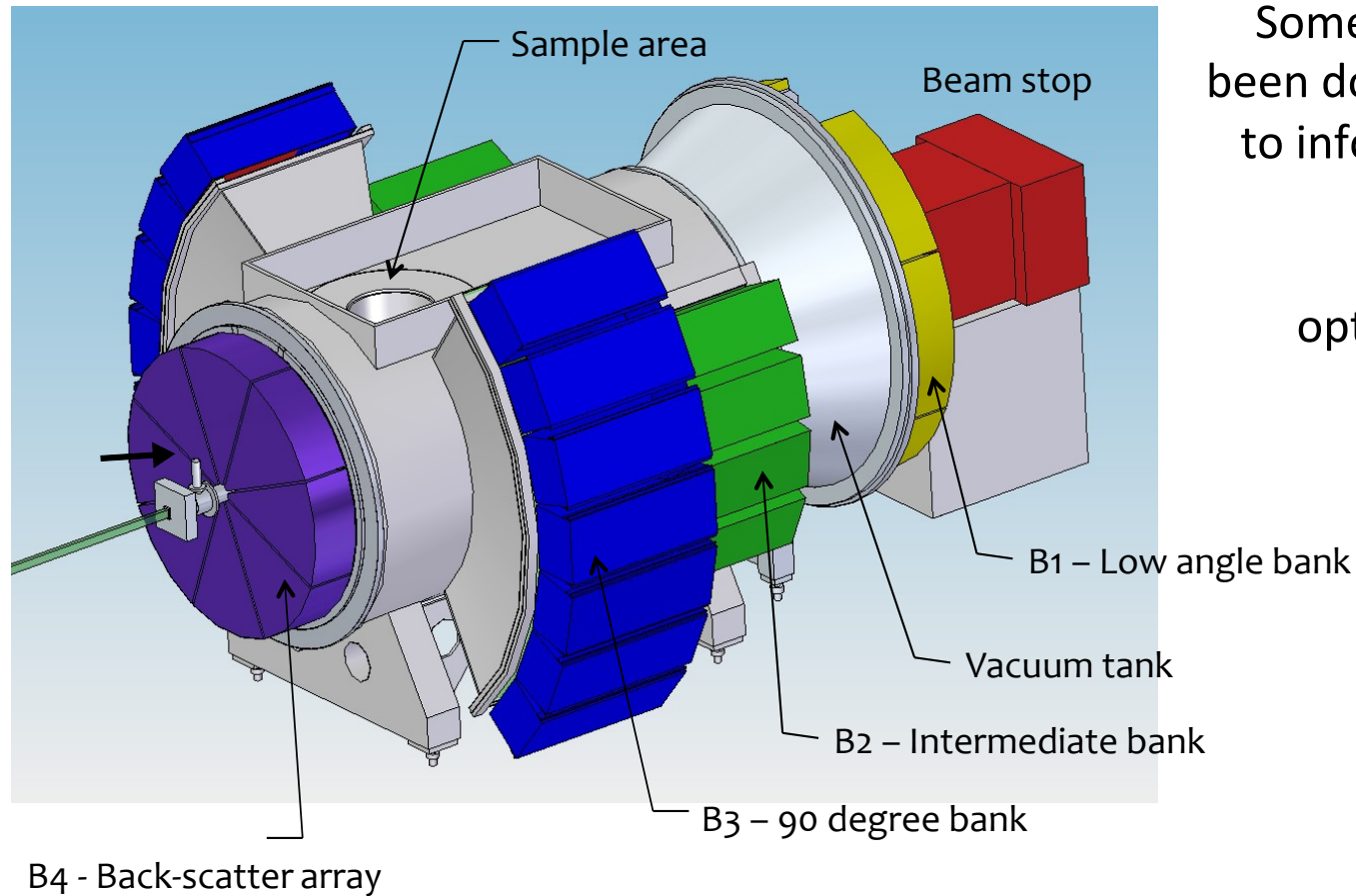
DOMINIC FORTES

Employed since January 2016 as an Instrument Scientist on the High Resolution Powder Diffractometer (HRPD) at the ISIS neutron source.

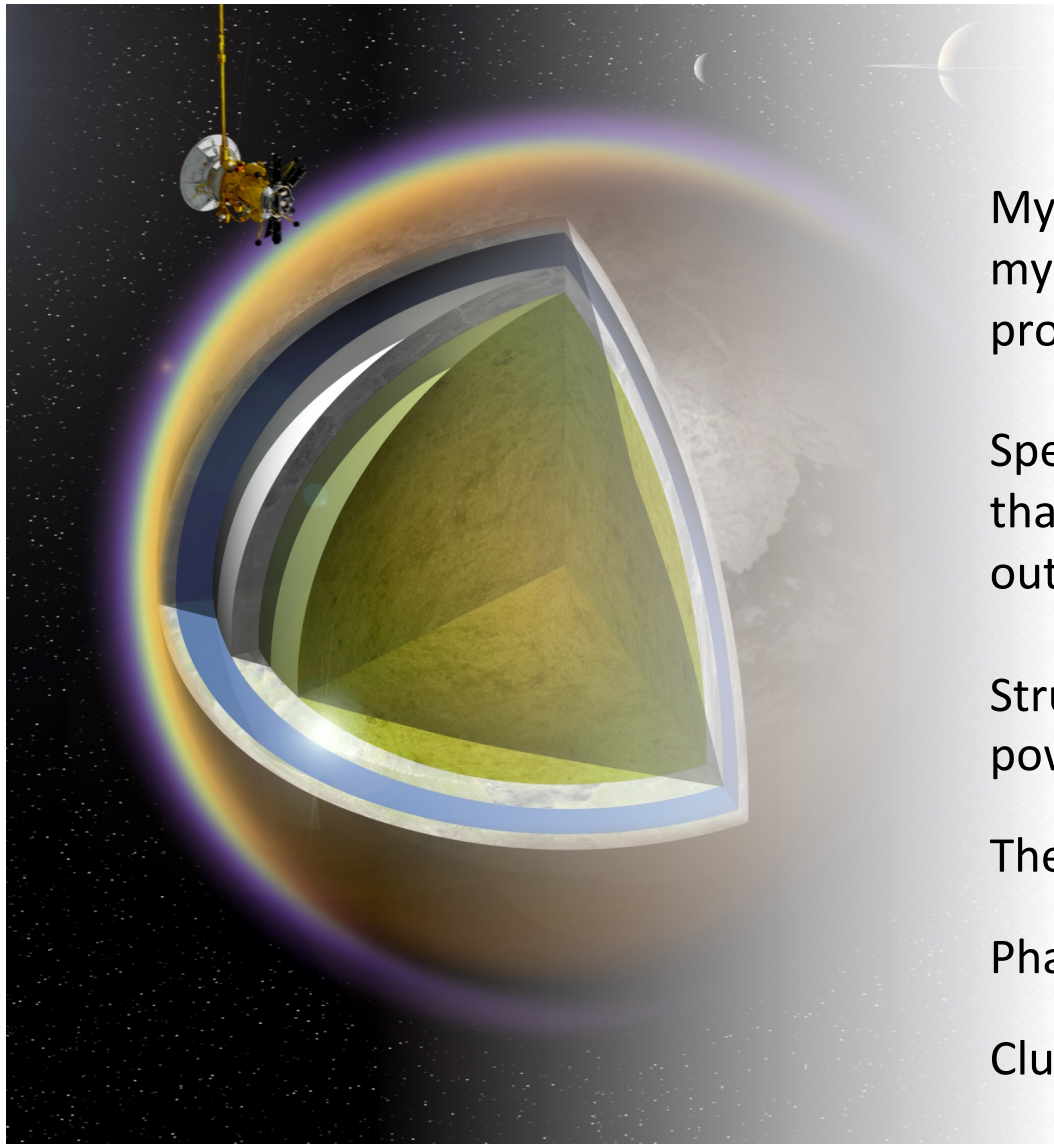
Experience includes 14 yr as an academic user of neutron facilities, ISIS and the ILL – powder, single crystal and a little small-angle scattering.

Future tasks will include a complete upgrade of HRPD and its infrastructure

HRPD Upgrade : Detector Array



Some preliminary design work has been done on the proposed upgrade to inform time-lines and budgetary considerations but formal performance simulations and optimisation remain to be done.



ACADEMIC BACKGROUND

My training was in Planetary Science (UCL) and my research has focused on the structure and properties of planetary materials.

Specifically, I'm interested in ices and hydrates that form solid bodies (mostly moons) in the outer solar system.

Structures (often determined *ab initio* from powder data or by constrained DFT prediction)

Thermal expansion/incompressibility

Phase diagrams, ΔH_m , ΔV_m .

Clustering of water in crystalline hydrates.