

# Experimental report

04/01/2021

**Proposal:** DIR-188

**Council:** 4/2019

**Title:** Investigating the strain profile in the Skymion phase of Ni doped CuOSeO<sub>3</sub>

**Research area:** Physics

**This proposal is a new proposal**

**Main proposer:** Robert CUBITT

**Experimental team:** Ugwumsinachi OJI  
Robert CUBITT  
Marta CRISANTI

**Local contacts:** Sandra CABEZA

**Samples:** Ni doped CuOSeO<sub>3</sub>

Instrument	Requested days	Allocated days	From	To
SALSA	2	2	10/02/2020	12/02/2020

**Abstract:**

## Experimental Report DIR-188 R. Cubitt

On Salsa the aim was to eliminate the possibility that the variation of Skyrmion states in Ni doped  $\text{Cu}_2\text{OSeO}_3$  was not a result of a strain profile across the sample originating from, for example, differential contraction on cooling. We found no such variation as shown in panel c) below.

The results are published in PRB M. Crisanti et. al., 102, 224407 (2020)

