

# Experimental report

29/08/2025

**Proposal:** CRG-3106

**Council:** 4/2024

**Title:** Changes induced by pressure in the nuclear and magnetic structure of FeWO<sub>4</sub>

**Research area:**

This proposal is a new proposal

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**Local contacts:** Stanislav SAVVIN

**Samples:** FeWO<sub>4</sub>

Instrument	Requested days	Allocated days	From	To
XTREMED	9	2	21/03/2024	23/03/2024

**Abstract:**

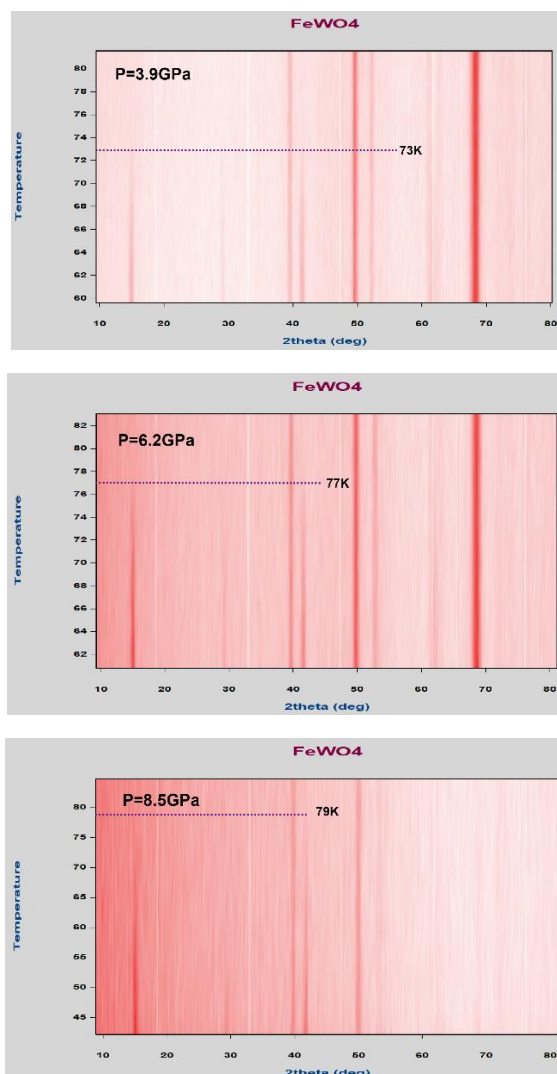
# Experimental Report

N° EXPERIMENT: CRG-3106 / TEST-3369

DATES: 21-25/03/2024

There were no significant incidents during experimental data collection. However, we suspect some kind of problem with the pressure cell, as dark areas appear when reaching high pressure.

The sample ( $\text{FeWO}_4$ ) was placed into Paris-Edimburg cell at RT conditions and the pressure was increased up to 4, 6 and 8.5 GPa.



**Figure:** Diffraction patterns vs function of temperatures at different pressures for  $\text{FeWO}_4$ .

## **PUBLICATION**

The data from these experiments have led to the following publication:

J. Appl. Phys. 136, 2024, 175901

<https://doi.org/10.1063/5.0230576>