

**PEOPL'S DEMOCRATIC REPUBLIC OF ALGERIA  
MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC RESEARCH  
MOHAMED SEDDIK BEN YAHIA UNIVERSITY- JIJEL  
FACULTY OF EXACT SCIENCES AND COMPUTER SCIENCE  
DEPARTEMENT OF PHYSICS**



**DOCTORAL THESIS  
Presented for the degree of doctorate in science  
Speciality: Materials physics**

By

**YOUNSI Walid**

**Subject**

**Study of martensitic transformations and magnetic properties of  
Heusler-type ferromagnetic shape memory alloys**

Publicly presented and supported on **04 /02/2025** at **16:00 h** in the central library

**Jury composed of:**

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