

Low Temperature Nuclear Orientation

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Recent developments in low temperature nuclear orientation

November 21st, 2017 - A review is given of the techniques associated with low temperature thermal equilibrium nuclear orientation detected using nuclear radiations

Orientation parameters for low temperature nuclear

August 3rd, 2018 - NUCLEAR DATA TABLES 11 407 431 1973 ORIENTATION PARAMETERS FOR LOW TEMPERATURE NUCLEAR ORIENTATION KENNETH S KRANE Los Alamos Scientific Laboratory University of California Los Alamos N M 87544 A formulation is presented for the tensor components B which characterize the magnetic substate population distribution of a nuclear spin system cooled to ultralow temperatures and subjected to a static magnetic dipole or electric quadrupole field

Nuclear Orientation Thermometry [nvlpubs nist gov](http://nvlpubs.nist.gov)

November 11th, 2018 - Low temperature nuclear orientation thermometry in particular γ ray anisotropy thermometry is discussed both from a theoretical and practical point of view Detailed information is given on the most often

Low temperature nuclear orientation of CeNi₂Al₅ and CeNiSn

July 17th, 2018 - Hyperfine interactions at Ce sites of CeNi₂Al₅ and CeNiSn single crystals were investigated by means of the low temperature nuclear orientation of the ¹⁴¹Ce isotope From the temperature dependence of \hat{I}^3 ray anisotropies the hyperfine fields at Ce nuclei in CeNi₂Al₅ and CeNiSn were deduced as 92 ± 6 T and 16 T respectively

Low temperature nuclear orientation and NMR of oriented

September 9th, 1975 - Abstract Recent developments in nuclear orientation NO and radiative detection of NMR NMR ON are reviewed Details of the hyperfine interaction hamiltonian in cubic ferromagnets and the principles of measurement by these techniques of both magnetic dipole and electric

quadrupole terms are outlined

PDF Low temperature nuclear orientation on the Kondo

November 9th, 2018 - The isotope ^{147}Nd has been oriented by means of low temperature nuclear orientation on the pseudobinary series $\text{Ce}_x\text{Nd}_{1-x}\text{Ni}$ for $x = 0, 0.1, 0.25, 0.5$ and 0.8

The on line low temperature nuclear orientation facility

October 27th, 2018 - Low temperature nuclear orientation experiments offer multi faceted information on nuclear physics provided the solid state parameters are known and vice versa 1

Applications of low temperature nuclear orientation CERN

October 12th, 2018 - Keywords Nuclear orientation • NMRON • Hyperfine interactions • Magnetic order 1 Introduction Low temperature thermally oriented nuclear orientation LTNO is an epitome of hyperfine physics and together with the spectroscopic extension nuclear magnetic resonance on oriented nuclei NMRON are used across a range of applications

Magnetism at very low temperatures and nuclear orientation

October 30th, 2018 - Magnetism at very low temperatures and nuclear orientation Authors Authors and affiliations Download to read the full article text Footnotes Bibliography M J Steenland and H A Tolhoek Orientation of atomic nuclei at low temperature in Progress in Low Temperature Physics Kurti The Temperature Range below 1°K Absolute in Low temperature Physics

Dynamic orientation of nuclei at low temperatures Deep Blue

October 18th, 2018 - Dynamic Orientation of Nuclei at Low Temperatures 189 Larmor frequency the net polarization will then be proportional to the relative difference of the intensities of the two packets which cause opposite contributions to the polarization $s_{\alpha 5}$ Therefore the net polarization always will be reduced

Low temperature nuclear orientation studies of the

September 15th, 2018 - Hyperfine Interact DOI 10.1007/s10751-010-0245-9 Low temperature nuclear orientation studies of the magnetic structures of RNiAl_4 in applied magnetic fields

Low temperature nuclear orientation Book 1986 WorldCat

September 30th, 2018 - Note Citations are based on reference standards However formatting rules can vary widely between applications and fields of interest or study The specific requirements or preferences of your reviewing publisher classroom teacher institution or organization should be applied

Low temperature nuclear orientation and its application to

September 26th, 2018 - the related techniques of low temperature nuclear orientation LTNO and nuclear magnetic resonance of oriented nuclei NMR ON are being applied to the study of magnetic properties in solids and to certain related properties

Applications of low temperature nuclear orientation

September 12th, 2018 - Applications of low temperature nuclear orientation

Hutchison Wayne 2012 11 21 00 00 00 The techniques of low temperature nuclear orientation LTNO and nuclear magnetic resonance on oriented nuclei NMRON are versatile tools used across a range of applications Such applications include nuclear moment and hyperfine field measurements and

Low temperature nuclear orientation of ^{54}Mn in FeNiMn

March 15th, 2015 - Abstract Magnetic moment behaviour of ^{54}Mn in the Fe_{0.65}Ni_{0.35}1-xMn-x alloy x = 0.024 and 0.082 was studied by low temperature nuclear orientation in the temperature range of 9.50 mK in the external magnetic field B_{ext} up to 3.6 T ^{54}Mn hyperfine magnetic fields and a misalignment of the Mn magnetic moments were extracted from data using fitting procedure

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