

# Spin Wave Confinement

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<https://www.crcpress.com/Spin-Wave-Confinement/Demokritov/9789814241069>

Introduction. Chapter 1. Quantized Spin-Wave Models due to Lateral Confinement. S. O. Demokritov and V. E. Demidov. Chapter 2. Brillouin Light Scattering Study of Spin

<http://www.sponpress.com/books/details/9789814241069/>

Inbunden, 2008. Pris 1258 kr. K p Spin Wave Confinement (9789814241069) av Sergej O Demokritov p Bokus.com

<http://www.bokus.com/bok/9789814241069/spin-wave-confinement/>

Introduce quantum confinement to a nanostructure, broken spin Whether the ordered state is destabilized by spin-wave excitations depends on the relation

<http://physics.aps.org/articles/v5/34>

We investigate the spin-wave dispersion in rolled-up Permalloy microtubes based on self-rolling strained semiconductor layers. Using microwave absorption spectroscopy

<http://scitation.aip.org/content/aip/journal/apl/93/26/10.1063/1.3058764>

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<http://www.worldcat.org/title/spin-wave-confinement/oclc/185032765>

Anisotropic Quantum Confinement Effect and Electric Control It is possible to generate Rashba-like spin splitting for the the effective wave

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4298737/>

6.4 Spin waves in arrays of interacting, micron-size rectangular magnetic elements which is due to the confinement of the spin wave modes in the ele-

[http://www.physik.uni-kl.de/fileadmin/hillebrands/Jahresberichte/Annual\\_report\\_2000/Kap6-4J00.pdf](http://www.physik.uni-kl.de/fileadmin/hillebrands/Jahresberichte/Annual_report_2000/Kap6-4J00.pdf)

Spin Wave Confinement [Sergej O. Demokritov] on Amazon.com. \*FREE\* shipping on qualifying offers. This book presents recent scientific achievements in the

<http://www.amazon.com/Spin-Wave-Confinement-Sergej-Demokritov/dp/9814241067>

We study spin-wave spectra of mesoscopic ferromagnetic Sierpinski carpets by means of broadband-ferromagnetic resonance measurements and micromagnetic simulations.

<http://pubman.mpg.de/pubman/faces/viewItemOverviewPage.jsp?itemId=escidoc:2110559:4>

Spin waves are delocalized excitations of magnetic media that mainly determine their magnetic dynamics and thermodynamics at temperatures far below the critical one.

<http://rsta.royalsocietypublishing.org/content/369/1951/3575>

It is shown that in the case of low-amplitude spin waves the diffraction and the transverse confinement of spin waves lead to oscillations of the beam width.

<http://scitation.aip.org/content/aip/journal/apl/89/21/10.1063/1.2392821>

Spin-polarized quantum confinement in nanostructures: Scanning tunneling microscopy waves of the spin-split Shockley surface states. Unfortunately,

[http://www-old.mpi-halle.mpg.de/mpi/publi/pdf/11986\\_14.pdf](http://www-old.mpi-halle.mpg.de/mpi/publi/pdf/11986_14.pdf)

Spin Wave Quantization by the Stripe Domain Structures the propagating spin wave formed a standing wave due to the reflection from the geometrical confinement,

[http://www.academia.edu/4685958/Spin\\_Wave\\_Quantization\\_by\\_the\\_Stripe\\_Domain\\_Structures\\_in\\_a\\_Continuous\\_Film](http://www.academia.edu/4685958/Spin_Wave_Quantization_by_the_Stripe_Domain_Structures_in_a_Continuous_Film)

A wave function in quantum mechanics describes the quantum state of an isolated system of one or more particles. There is one wave function containing all the

[http://en.wikipedia.org/wiki/Wave\\_function](http://en.wikipedia.org/wiki/Wave_function)

Title: Internal spin-wave confinement in magnetic nanowires due to zig-zag shaped magnetization:

Authors: Topp, Jesco; Podbielski, Jan; Heitmann, Detlef; Grundler, Dirk

<http://adsabs.harvard.edu/abs/2008PhRvB..78b4431T>

Get this from a library! Spin wave confinement. [Sergej O Demokritov;] -- This book presents recent scientific achievements in the investigation of magnetization

<http://www.worldcat.org/title/spin-wave-confinement/oclc/666237597>

Title : Spin waves propagation and confinement in magnetic microstructures Propagation et confinement d'ondes de spin dans les microstructures magnétiques

<http://www.opengrey.eu/item/display/10068/738706>

Internal spin-wave confinement in magnetic nanowires due to zig-zag shaped magnetization. J Topp, J Podbielski, D Heitmann, D Grundler.

<http://scholar.google.com/citations?user=5NKWK2IAAAJ&hl=en>

In this dissertation, we investigate the edge spin excitations and reconstructions of quantum Hall (QH) liquids. Edge spin reconstructions reflect the interplay of

<http://diginole.lib.fsu.edu/etd/9274/>

We consider a 1+3 dimensional spin system. The spin-wave (magnon) field is described by the O(3) non-linear sigma model with a symmetry-breaking potential.

<http://link.springer.com/article/10.1140/epjc/s10052-013-2525-4>

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<http://www.alibris.com/Spin-Wave-Confinement-Sergej-O-Demokritov/book/11159251>

Effect of spatial confinement on spin-wave spectrum: Low temperature deviation from Bloch's  $T^{3/2}$  law in Co nanoparticles. P Anil Kumar\* and K Mandal

[http://arxiv.org/pdf/cond-mat/0701152?origin=publication\\_detail](http://arxiv.org/pdf/cond-mat/0701152?origin=publication_detail)

Effect of harmonic confinement on correlation studies of a spin We have investigated a spin imbalanced s-wave superconductor on confinement on a spin

<http://www.sciencedirect.com/science/article/pii/S0921453411000682>

This review is devoted to both the experimental and theoretical aspects of lateral confinement effects observed for spin waves, with the wavevector in the 102

<http://www.sciencedirect.com/science/article/pii/S0370157300001162>

The propagating spin wave spectroscopy (PSWS) technique is applied for the first time to metallic thin film patterns, allowing to measure their magnetostatic wave modes.

<http://iopscience.iop.org/0295-5075/56/5/741>

Quantum confinement effects on spin waves at low temperatures have been studied in a FeSi multilayer by proposing a model for the space anisotropy associated to the

<http://www.redalyc.org/articulo.oa?id=57030392044>

Spin Waves Theory and Applications. Authors: Anil Prabhakar, Optical-Spin Wave Interactions. Daniel D Stancil, Anil Prabhakar. Download PDF (1260KB) Book

<http://link.springer.com/book/10.1007%2F978-0-387-77865-5>

Spin waves are the fundamental dynamic eigenmodes of a magnetic system and spin wave The confinement effects are even more dramatic for rectangular magnetic

<http://cat.inist.fr/?aModele=afficheN&cpsidt=13996408>

Thus by varying the size of the quantum dot, the confinement energy of a quantum dot's electronic wave functions precise measurements of the spin and other

[http://en.wikipedia.org/wiki/Quantum\\_dot](http://en.wikipedia.org/wiki/Quantum_dot)

This book presents recent scientific achievements in the investigation of magnetization dynamics in confined magnetic systems. Introduced by Bloch as plane waves of

<http://www.amazon.it/Spin-Wave-Confinement-Sergej-Demokritov/dp/9814241067>

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<http://www.abebooks.com/9789814241069/Spin-Wave-Confinement-9814241067/plp>

2 An important aspect of the physics of nanostructures is how spin dynamics are influenced by both geometric confinement and magnetic microstructure.

<http://arxiv.org/pdf/cond-mat/0207022>

The lateral confinement of the microwire causes spin-wave modes of frequencies very close to each other and local suppression of the modes were experimentally

[http://ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?arnumber=5257386](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5257386)