Spin Dynamics And Snakes In Synchrotrons

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Spin Dynamics and Snakes in Synchrotrons
The material covers the equation of motion for polarized beams in synchrotrons, spin depolarizing resonances, practical methods used in overcoming spin resonances, effects of spin rotators -- called Siberian snakes -- on the polarization vector, snake resonances, Sokolov-Ternov radiative polarization of electrons, and design principles of spin rotators.

Spin dynamics simulations at AGS
The complexity of beam and spin dynamics, which is in part due to the specialized Siberian snake magnets, drove a strong interest for original methods of simulations. For that, the Zgoubi code, capable of direct particle and spin tracking through field maps, was here used to model the AGS.

S Y Lee Spin Dynamics and Snakes in Synchrotrons – World ...
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Spin Dynamics | SpringerLink
SPIN DYNAMICS SIMULATIONS AT AGS H. Huang , W. W. MacKay , F. Meot· y, T. Roser Abstract To preserve proton polarization through acceleration, it is important to have a correct model of the process. It has been known that with the insertion of the two helical partial Siberian snakes in the Alternating Gradient Syn-

Spin dynamics and snakes in synchrotrons (Book, 1997 ...
where is the spin vector of a particle in the particle rest frame, and are the transverse and longitudinal components of the magnetic fields in the laboratory frame with respect to the velocity of the particle.

Spin Dynamics and Snakes in Synchrotrons: Shyh-Yuan Lee ...
SPIN DYNAMICS AND SNAKES IN SYNCHROTRONS. Edited by LEE S Y. Published by World Scientific Press

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Spin dynamics modeling in the AGS based on a stepwise ray ...
SPIN DYNAMICS IN AGS AND RHIC ... the stable spin direction is vertical outside the snakes; a spin-up bunch in one half of the ?ips over at a snake to point down in the other half of the ring and ?ips back to up in the second snake. The Froissart-Stora formula[4] gives the ratio of ?nal to ...

Spin Dynamics - BNL
Spin tracking simulations in AGS based on ray-tracing methods - bare lattice, no snakes - A work performed at BNL in September and October 2009, in collaboration with L. Ahrens, J. Glenn, H. Huang, A. Luccio, W. W. MacKay, T. Roser, N. Tsoupas Abstract This Note reports on the ?rst simulations of and spin dynamics in the AGS using th e ray ...

Polarized Protons and Siberian Snakes
Closed Orbit Spin Dynamics Invariant Torus Spin Motion Phase Space Point These keywords were added by machine and not by the authors. This process is experimental and the keywords may be updated

as the learning algorithm improves.

Re-visiting RHIC snakes: OPERA fields, n0 dance (Technical ...
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The Thomas–BMT equation | Spin Dynamics and Snakes in ...
How to avoid a snake resonance Keep the spin tune as close to ½ as possible 30 40 50 •set the vertical tune to 0.745 •measure the beam polarization with different snake current snake current setting-10 0 10 20 300 305 310 315 320 325 330 335 snake Inner Current [Amp] polarization Blue FY04 flatten orbit Yellow FY04 zero orbit Yellow FY05 Zero orbit

Spin tracking simulations in AGS based on ray-tracing ...
Beam Dynamics: A New Attitude and Framework (Harwood Academic 1998) Accelerator Physics - Advanced Topics S.Y. Lee Spin Dynamics and Snakes in Synchrotrons (World Scientific 1997) Accelerator Physics - Advanced Topics Michiko Minty and Frank Zimmerman Measurement and Control of Charged Particle Beams (Springer 2004)

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- bare lattice, no snakes - A work performed at BNL in September and October 2009, in collaboration with L. Ahrens, J. Glenn, H. Huang, A. Luccio, W. W. MacKay, T. Roser, N. Tsoupas Abstract This Note reports on the ?rst simulations of and spin dynamics in the AGS using th e ray-tracing code Zgoubi.

Spin Dynamics And Snakes In
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Spin Dynamics in AGS and RHIC - CERN
Siberian Snakes and Spin Manipulations From controlling spin to taming snakes . Spin Dynamics in Rings Precession Equation in Laboratory Frame: (Thomas [1927], Bargmann, Michel, Telegdi [1959]) dS/dt = - (e/?m) [(1+G?)B

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Siberian Snakes and Spin Manipulations
Abstract. In this Tech. Note RHIC snakes and stable spin direction $$\vector{n}$$ 0 (s) are re-visited, based on OPERA-computed field maps of the former. The numerical simulations so undertaken provide various outcomes regarding RHIC optics and spin dynamics, in relation with orbital and focusing effects resulting from the use of this realistic 3-D representation of the snakes.