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These keywords were
added by machine and
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process is experimental
and the keywords may

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be updated as the learning algorithm improves.

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

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the tips over at a snake
to point down in the
other half of the ring
and tips back to up in
the second snake. The
Froissart-Stora
formula[4] gives the
ratio of η_{nal} to ...

Spin Dynamics in AGS
and RHIC - CERN
Siberian Snakes and
Spin Manipulations
From controlling spin

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to taming snakes . Spin

Dynamics in Rings

Precession Equation in

Laboratory Frame:

(Thomas [1927],

Bargmann, Michel,

Telegdi [1959]) $dS/dt =$

$-(e/\hbar m) [(1+G\gamma)B$

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Beam Dynamics: A
New Attitude and
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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 first simulations of

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and spin dynamics in
the AGS using the ray-
tracing code Zgoubi.

The Thomas-BMT
equation | Spin
Dynamics and Snakes
in ...

How to avoid a snake
resonance Keep the
spin tune as close to $\frac{1}{2}$
as possible 30 40 50

- set the vertical tune to 0.745
- measure the

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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 Dynamics and
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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,

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radiative polarization of
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Spin Dynamics - BNL
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2009, in collaboration
with L. Ahrens, J.
Glenn, H. Huang, A.
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Siberian Snakes and
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Abstract. In this Tech.
Note RHIC snakes and
stable spin direction
 $\vec{n} \cdot \vec{s} = 0$ (s) are
re-visited, based on
OPERA-computed field
maps of the former.
The numerical

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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.

Spin dynamics
simulations at AGS

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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.

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preserve proton

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polarization through
Synchrotrons
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-

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(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.

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