Spin dynamics and snakes in synchrotrons

World Scientific - Suppressing intrinsic spin harmonics at the cooler synchrotron COSY

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-

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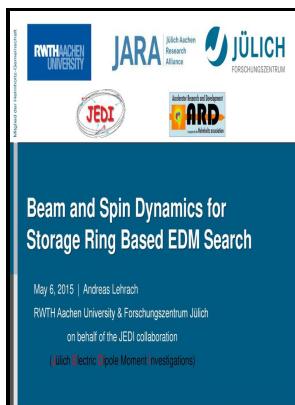
Nuclear magnetic resonance.

Nuclear spin.

Synchrotrons.Spin dynamics and snakes in synchrotrons

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Notes: Includes bibliographical references (p. 180-184) and index.

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Spin Dynamics

Since Monte-Carlo simulations are computationally very expensive, we discuss here an efficient surrogate modeling scheme based on the Polynomial Chaos Expansion method to compute the field quality in the presence of tolerances and misalignments and subsequently to perform the sensitivity analysis at zero additional computational cost. The remaining losses will be reduced by longer measurements of the polarization during resonance correction. .

Phys. Rev. ST Accel. Beams 10, 014001 (2007)

The resonant and magnetic aspects of XRMS arise from an approach called x-ray magnetic circular dichroism spectroscopy. This approximate picture, however, ignores two spin dynamics effects: an interference-overlap effect and a spin echo effect.

S Y Lee Spin Dynamics and Snakes in Synchrotrons

It turns out that even when the precession phases appear to be completely smeared between the two crossings, there will still be a sudden and short-lived echo signal of beam polarization at a time τ after the second crossing; the magnitude of which can be as large as 57%.

ShieldSquare

. During acceleration of a polarized beam, depolarizing resonances are crossed if the precession frequency γG of the spin Intrinsic resonances The number of intrinsic resonances depends on the superperiodicity P given by the number of identical periods in the accelerator.

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