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due to shifts in the dynamics of speciation and phenotypic evolution snakes have transformed the trophic structure of animal communities through the recurrent origin and diversification of specialized predatory strategies

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our results indicating exceptionally high phenotypic evolutionary rates at the origin of snakes further suggest that snakes not only possess a distinctive morphology within reptiles 52 but

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given the substantial diversity in life history traits among hydrophiine species 29 36 39 population dynamics of sea snakes are likely to be equally diverse and generalisations therefore

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a snake is a local spin rotator which rotates the spin of each particle about an axis in the horizontal plane snakes invented by derbenev and kondratenko 17 can be used to overcome intrinsic imperfection and synchrotron depolarization resonances

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the role for density dependence in annual dynamics of these populations is consistent with the slow k selected life history attributes of the species and the influence of weather conditions on reproductive output suggests that females adjust their allocation to reproduction based on

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here we provide a detailed analysis of evolutionary dynamics in snake mitochondrial genomes to better understand the basis of these extreme characteristics and to explore the relationship between mitochondrial genome molecular evolution genome architecture and molecular function

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for example snakes might be detected using an association field mechanism whereas ladders might be detected by looking for extended regions of response in the output of a second order channel such as those proposed in many models of texture segregation graham 1991 graham sutter 1998 graham beck sutter 1992 graham sutter venka

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abstract imperfection spin resonances in proton synchrotrons occurs every 523 mev in the kinetic energy between these imperfection resonances there are occasionally important intrinsic resonances synchrotron sidebands and higher order spin resonances

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a new round of experiments with live snakes this time focused on dynamics and control will be conducted at virginia tech first in the the cube a black box theater at the moss arts center and later outdoors with a custom camera rig focusing on the shallowing phase of gliding

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we uncover the conditions of the existence of such spatiotemporal photonic snakes and confirm their remarkable robustness against perturbations

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spin tune in the single resonance model with a pair of siberian snakes snake resonances are classified in terms of the invariant spin field and the amplitude dependent spin tune exactly at snake resonance there is no continuous invariant spin field

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to understand the basic concept of prey predator dynamics using the established mathematical model of lotka volterra equations i e how predators affect prey populations and vice versa to analyze the population pattern variation by changing critical parameters like initial population of either prey and or predator

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