
Phase Matched High Order Harmonic Generation

phase-matched high order harmonic generation and applications - phase-matched high order harmonic generation and applications a thesis submitted for the degree of doctor of philosophy by ba khuong dinh centre for atom optics and ultrafast spectroscopy and **spatially coherent, phase matched, high-order harmonic euv ...** - in this paper, we show that by increasing the pulse energy by a moderate factor ($3 \times$) and the gas pressure ($\sim 40 \times$) compared with previous work [11], we can implement fully phase- **supplementary figures 1. generation of phase-matched high ...** - 2 supplementary figures 1. generation of phase-matched high order harmonics with 1400 nm driving pulse supplementary figure 1: phase-matched generation of harmonics using a 1400 nm driving **quasi-phase-matched high-order harmonic generation using ...** - quasi-phase-matched high-order harmonic generation using tunable pulse trains kevin o'keeffe,* david t. lloyd, and simon m. hooker department of physics, clarendon laboratory, oxford ... **phase matching of high harmonic generation in the soft and ...** - by driving the high-order harmonic generation process using longer-wavelength midinfrared light, we show that, in theory, fully phase-matched frequency upconversion can extend **phase-matched extreme-ultraviolet frequency-comb generation** - laser-driven high-order harmonic generation^{1,2} (hhg) provides tabletop sources of broadband extreme-ultraviolet(xuv) light with excellent spatial³ and temporal⁴ coherence. these sources are typically operated at low repetition rates, f_{rep} 100 khz, where phase-matched frequency conversion into the xuv is readily achieved^{5,6}. however, there are many applications that demand the improved counting ... **proceedings of spie - researchbank.swinburne** - phase-matched optical wave mixing in the xuv region by two-colour high-order harmonic generation khoa anh tran a, khuong ba dinh a, peter hannaforde a, lap van dao a **phase matching and the spectrum of high-order harmonics ...** - high-order harmonics owing to the off-axially phase-matched generation of certain harmonics (the generation of a part of the angular spectrum of these harmonics is **high-order nonlinear phase shift caused by cascaded third ...** - of third-harmonic generation experiences an additional high-order nonlinear phase shift. the magnitude of the shift is proportional to the square of the pump intensity and the length of the sample and depends on the deviation from the exact phase-matched condition. this phase shift arises from cascaded third-order processes. its value can exceed the value of the phase shift that originates ... **phase matched second harmonic generation in an on-chip ...** - phase matched second harmonic generation in an on-chip lithium niobate microresonator fabricated by femtosecond laser jintian lin,¹ yingxin xu,² jielei ni,³ min wang,^{1,4} zhiwei fang,^{1,5} lingling qiao,¹ wei fang,^{2,*} and **coherent water window x ray by phase-matched high-order ...** - coherent water window x ray by phase-matched high-order harmonic generation in neutral media eiji j. takahashi,* tsuneto kanai, kenichi i. ishikawa, yasuo nabekawa, and katsumi midorikawa

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