
Complex General Relativity

energymomentum complex in general relativity and gauge theory - energymomentum complex in general relativity and gauge theory david hestenes1 department of physics and astronomy arizona state university, tempe, arizona 85287-1504 alternative versions of the energymomentum complex in general relativity are given compact new formulations with spacetime algebra. a new unitary **testing pseudo-complex general relativity with ...** - we show how the model of pseudo-complex general relativity can be tested using gravitational wave signals from coalescing compact objects. the model, which agrees with einstein gravity in the weak-eld limit, diverges dramatically in the near-horizon regime, with certain parameter ranges excluding the existence of black holes. we show **complex general relativity - springer** - complex general relativity by giampiero esposito national institute for nuclear physics, naples, italy kluwer academic publishers new york / boston / '25'5(&+7 /21'21 / moscow **real general relativity from complex general relativity ...** - 1 complex general relativity plebanski's work [1] on complex general relativity presents a way of recasting general relativity in terms of bivector 2-form fields instead of tetrad fields [13] or space-time metrics. it helped to reformulate general relativity as a bf theory **pseudo-complex general relativity arxiv:0812.1738v1 [gr-qc ...** - pseudo-complex general relativity 5 dgr $\mu\nu dx^\lambda = dg_{\mu\nu} dx^\lambda + dg_{\mu\nu} dx^\lambda = dg_{\mu\nu} dx^\lambda$, (11) where $g_{\mu\nu}$ is the pseudo-real and $g_{\mu\nu}$ the pseudo-imaginary component, with $x^\lambda = x^1 + ix^2$ being the pseudo-real part and x^2 the pseudo-imaginary part of the 4-coordinate $x^\lambda = x^1 + ix^2$. if we would assume that $g_{\mu\nu}$ does only depend ... **pseudo-complex general relativity - researchgate** - an extension of the theory of general relativity is proposed, based on pseudo-complex space-time coordinates. the new theory corresponds to the introduction of two, in gen- **general relativity in pseudo-complex form - cesarzen** - contrary to einstein's general relativity in quantum mechanics there is complete symmetry between coordinates and momenta thus suggests introducing the length element [born, 1938] $[j]_{ij} x_i, p = ih\delta_{ij}$, $[x_i, x_j] = 0$, $[p_i, p_j] = 0$ lead by pure symmetry and dimensional arguments born has introduced a scalar length parameter, **there are no black holes: pseudo-complex general ...** - there are no black holes: pseudo-complex general relativity from einstein to zweistein walter greiner 1. introduction the theory of general relativity (gr) has defied up to now all experimental tests (will 2004) and is considered as the favored theory for gravitation. gr also predicts the existence of so-

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