
Investigation Ultra Relativistic Euler Equations Mahmoud

analytical and numerical investigation of the ultra ... - analytical and numerical investigation of the ultra-relativistic euler equations dissertation zur erlangung des akademischen grades doctor rerum naturalium **brief scientific curriculum vitae of prof. dr. mahmoud ...** - (20) mahmoud a.e. abdelrahman, symmetrization of the ultra-relativistic euler equations, journal of research in applied sciences (2016). (21) mahmoud a.e. abdelrahman and osmaa moaaz, solutions of the ultra-relativistic euler **conserved schemes with high pressure ratio, high particle ...** - the paper proposes a numerical investigation for three conserved schemes when applied to the nonlinear ultra-relativistic euler equations with an initial high pressure ratio and with an initial high particle density ratio. the results show that two of these schemes work efficiently and the third one may present inaccurate results even applied over a very delicate mesh. several problems of the ... **institut für analysis und numerik** - exact solutions to the riemann problem for compressible isothermal euler equations for two-phase flows with and without phase transition in: quarterly of applied mathematics. **ideal nuclear fluid dynamics at ultra-relativistic energies** - z. phys. c - particles and fields 54, 459-462 (1992) zeitschrift fur physik c partic~ and 9 springer-verlag 1992 ideal nuclear fluid dynamics at ultra-relativistic energies **arxiv:0905.0349v2 [math-ph] 10 jul 2010** - ultra-relativistic equation of state (the pressure being directly proportional to the energy density) allows us to express this solution in analytical terms. the result can be used both to construct and test numerical schemes for relativistic euler equations in (3 +1) dimensions. i. introduction solutions of the riemann problem in the relativistic hydrodynamics are of crucial importance for ... **muhammad yousaf - ww3sats** - shamsul qamar , muhammad yousaf, sidrah mudassar, the space-time cese method for solving ultra-relativistic euler equations, computer physics communications , 182 (2011), 994-1004 (impact factor 3.268). **amplitude modulation of quantum-ion-acoustic wavepackets ...** - amplitude modulation of quantum-ion-acoustic wavepackets in electron-positron-ion plasmas: modulational instability, envelope modes, extreme waves) **dr. muhammad yousaf - ww3sats** - list of publications 1. s. qamar, m. yousaf, s. muddasser, the space-time ce/se method for solving ultra-relativistic euler equations, computer physics communications, 182, **solutions of the tov equations describing stars** - ultra-relativistic model and the non-relativistic model, the radius at which the pressure reaches zero is several magnitudes greater for the ultra-relativistic model. **towards manipulating relativistic laser pulses with 3d ...** - towards manipulating relativistic laser pulses with 3d printed materials . i. Ii. 2ji , j. snyder 1, a. pukhov , r. r. freeman1 & k. u. akli. efficient coupling of intense laser pulses to solid-density matter is critical to many **on the coupling of massless particles to scalar fields** - correctly by a special-relativistic scalar theory in flat minkowskian spacetime. on the other hand, one may suspect that the problem of massless particles may be correlated in some way with the relativistic limit of the massive problem. **nucleus driven electronic pulsation - core** - nuclear density we can assume the ultra-relativistic limit $\rho = 3/4 (3\pi^2 n^4)^{1/3}$, $p = 1/4 (3\pi^2 n^4)^{1/3}$ (1) for the equation of state, where ρ , p , and n are the energy density, pressure, and number density of the electron gas respectively. throughout the text, natural units $c = 1$, $\hbar = 1$ are used. when we assume the nucleus of proton number z to have a radius $r_{nuc} = \Delta z^{1/3}$ in units of the pion mass, and ... **radiation reaction in quantum vacuum ver13 - researchgate** - therefore, it is necessary to study the radiation reaction effects in the ultra relativistic laser-electron interaction regime. this is an important scheme in laser-plasma physics, because this ...

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