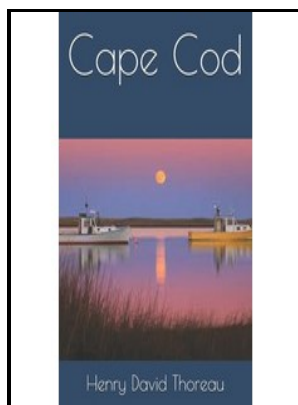


Hadrons and heavy ions - proceedings of the summer school held at the University of Cape Town, January 16-27, 1984

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A natural question now arises about the ; theoretical description of the collision between nuclei, namely whether the above pictures, valid for near-equilibrium nuclear structure aspects, can be extended to bear on non-equilibrium situations such as heavy-ion HI collisions. This estimate gives one a flavour of the background against which it seems natural to extend the description to time-dependent situations where one has a physical picture of nucleons moving freely in a common time-dependent potential generated by themselves.

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The master equation 4,17 can be cast into the Fokker-Planck form⁴. The advantages of such a line of attack consist of: 1 A firm grounding in known phenomenology, i. Diagrammatic expansions can thus be generated but prove largely unilluminating and difficult to utilize.

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A useful class of solutions to the TDHF eqs. Rev C15 1977 1359 8.

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From the above point of view nuclei are therefore one-body systems dominated by the long mean free paths of nucleons, the coordinates of which constitute the micro degrees of freedom. In general fusion takes place at intermediate energies where good agreement with experiment is found. A more realistic application has recently been made to atomic $p + \text{He}$ scattering 1271 48 0.

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