

## LIST OF PUBLICATIONS

### I. Ph.D. Thesis

Subject: "Pion absorption in the nucleus through the  $\pi^-nn$  reaction". Carried out under the supervision of Professor Judah M. Eisenberg, July 1981.

### II. Scientific Papers

1. Theoretical search for a stable  $\pi^-NN$  bound state.  
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3. Intranuclear cascade calculation of pion-nucleus reactions in the resonance region.  
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4. Chiral-bag models and the  $\pi n \rightarrow \pi\pi n$  reaction.  
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5. Pion photoproduction in the  $\Delta(1232)$  region and chiral bag models.  
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6. Higher order pion field effects in pion absorption on two nucleons.  
G. Kälbermann and J.M. Eisenberg,  
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7. Nonlinear effects in chiral bag models.  
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9. Application of chiral bag models to the Roper resonance.  
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13. Solitary waves in the Nambu Jona-Lasinio lagrangian.  
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14. Equivalent local Dirac potentials  
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15. Relativistic impulse approximation for meson nucleus Scattering.  
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16. Solitary waves in a Skyrmion-quark lagrangian.  
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17. The Lorentz-Lorenz effect and the Kemmer-Duffin-Petiau equation.  
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18. The proton-neutron mass difference in the Skyrme model.  
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20. The Kemmer-Duffin-Petiau approach to pionic atoms.  
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23. Properties of Skyrmions of large baryon number.  
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