

# Scott Chapman

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## Education

- 1987–1992      **UNIVERSITY OF CALIFORNIA**      Berkeley, CA
- Ph.D. in theoretical high energy nuclear physics.
  - Outstanding teaching award while head physics teaching assistant.
- 1981–1985      **YALE UNIVERSITY**      New Haven, CT
- B.S. in physics, cum laude with distinction in the major.

## Experience

- 2011-present      **CHAPMAN UNIVERSITY**      Orange, CA
- Trustee professor of physics
- 1994-1996      **LOS ALAMOS LAB**      Los Alamos, NM
- Postdoctoral work in theoretical nuclear physics.
- Created new approach to measuring quark-gluon plasma formation.
  - Simulated relativistic heavy-ion collisions on supercomputer.
- 1993-1994      **UNIVERSITY OF REGENSBURG**      Regensburg, Germany
- Postdoctoral work in theoretical nuclear physics.
- Predicted new phenomenon that was later confirmed experimentally.
  - Managed research and focus of graduate students.

## Publications

- 2021      *A twist on broken  $U(3) \times U(3)$  supersymmetry,*  
S. Chapman, Quantum Studies: Mathematics and Foundations, 8(1), 121-135, 2021.
- 2017      *Perturbative Yang-Mills Ground State in the Temporal Gauge,*  
S. Chapman, Quantum Studies: Mathematics and Foundations, 4(3), 217-223, 2017.
- 1996      *Realistic Expanding Source Model for Invariant One-Particle Multiplicity Distributions and Two-Particle Correlations in Relativistic Heavy-Ion Collisions,*  
S. Chapman and J. R. Nix, Phys.Rev.C54: 866-881, 1996.  
27 Citations
- 1995      *Extracting Source Parameters from Gaussian Fits to Two-Particle Correlations,*  
S. Chapman, J. R. Nix, and U. Heinz, Phys.Rev.C52: 2694-2703, 1995.  
63 Citations

*The “Out-Longitudinal” Cross Term and Other Model Independent Features of the Two-Particle HBT Correlation Function,*

S. Chapman, P. Scotto, and U. Heinz, Nucl.Phys.A590:449c-452c, 1995.

8 Citations

*Model Independent Features of the Two-Particle Correlation Function,*

S. Chapman, P. Scotto, and U. Heinz, Heavy Ion Phys.1:1-31, 1995.

86 Citations

*A new cross term in the two-particle Hanbury-Brown-Twiss correlation function,*

S. Chapman, P. Scotto, and U. Heinz, Phys.Rev.Lett.74:4400-4403, 1995.

121 Citations

1994

*HBT Correlators – Current Formalism vs. Wigner Function Formulation,*

S. Chapman and U. Heinz, Phys. Lett.B340:250-253, 1994.

64 Citations

*A New Dimensionally Reduced Effective Action for QCD at High Temperature,*

S. Chapman, Phys.Rev.D50:5308-5313, 1994.

24 Citations

1992

*Nuclear transparency in 15-A-GeV Si + Au reactions?,*

S. Chapman, Nucl.Phys.A544:429C-433C, 1992.

*Nuclear stopping power at approximately 15-GeV/nucleon,*

S. Chapman and M. Gyulassy Phys.Rev.C45:2952-2962, 1992.

2 Citations

*The Effective action for SU(N) at finite temperature,*

S. Chapman, Phys.Rev.C47:1763-1780, 1993.

5 Citations

1991

*Nuclear transparency in 15-A-GeV Si + Au reactions?,*

S. Chapman and M. Gyulassy, Phys.Rev.Lett.67:1210-1213, 1991.

14 Citations

