



# TWELFTH ANNUAL QUANTUM INFORMATION PROCESSING WORKSHOP

SANTA FE, NEW MEXICO  
JANUARY 12, 2009 – JANUARY 16, 2009

# WITH GENEROUS SUPPORT FROM:



Institute for Advanced Studies at Los Alamos National Laboratory • Los Alamos National Laboratory: The Quantum Initiative and the Center for Nonlinear Studies • Los Alamos National Laboratory: Information Science & Technology Center • Sandia National Laboratories • University of New Mexico: Center for Advanced Studies • National University of Singapore: Centre for Quantum Technologies • NEC

# WITH GENEROUS SUPPORT FROM:

## LOCAL ORGANIZING COMMITTEE

Andrew Landahl (UNM) (Chair)  
Howard Barnum (LANL)  
Jim Harrington (LANL)  
Cris Moore (UNM/SFI)  
Jon Yard (LANL)

Pat Berger (UNM) !!!

## STEERING COMMITTEE

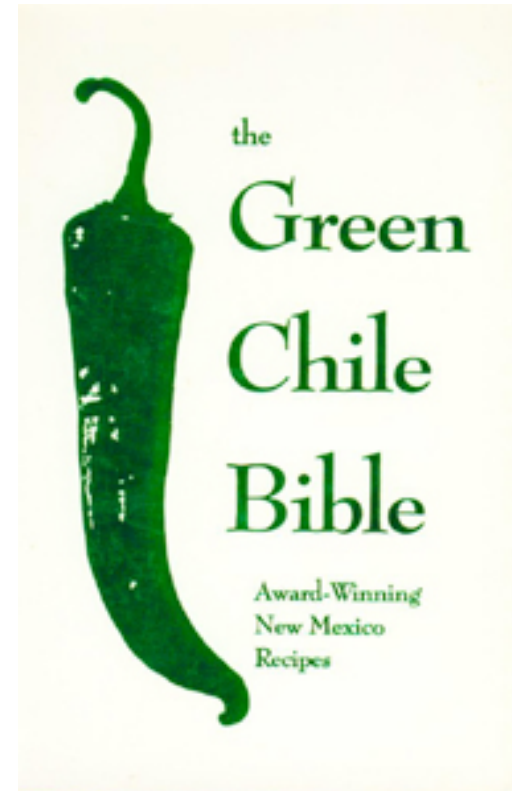
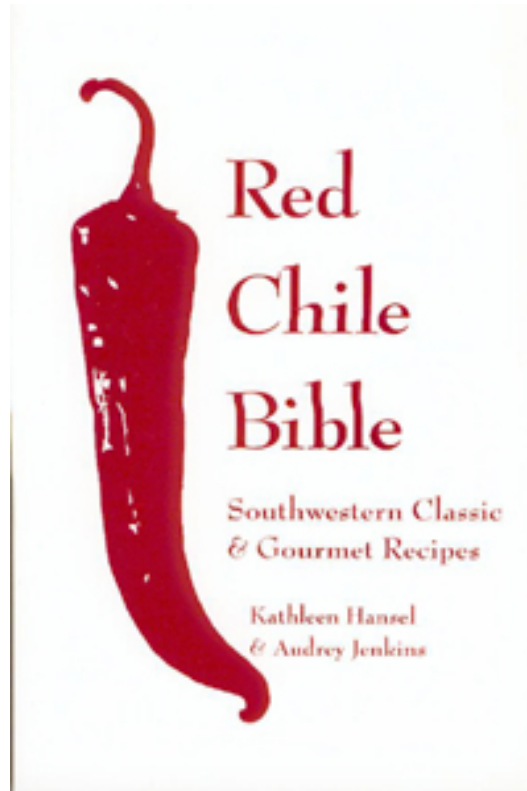
Cris Moore (UNM/SFI) (Chair)  
Dorit Aharonov (Hebrew University)  
John Preskill (Caltech)  
Jaikumar Radhakrishnan (TIFR, Mumbai)  
Renato Renner (ETH Zurich)  
Peter Shor (MIT)  
John Watrous (Waterloo)  
Andreas Winter (Bristol)  
Ronald de Wolf (CWI, Amsterdam)

## PROGRAM COMMITTEE

Richard Jozsa (Bristol) (Chair)  
Hans Briegel (Innsbruck)  
Harry Buhrman (CWI, Amsterdam)  
Wim van Dam (UCSB)  
Daniel Gottesman (Perimeter)  
Aram Harrow (Bristol)  
Patrick Hayden (McGill)  
Julia Kempe (Tel Aviv)

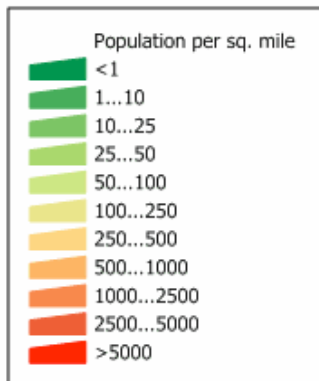
Manny Knill (NIST)  
Andrew Landahl (New Mexico)  
Debbie Leung (Waterloo)  
Keiji Matsumoto (NII Tokyo)  
Ben Reichardt (Caltech)  
Alex Russell (Connecticut)  
Barbara Terhal (IBM)  
Frank Verstraete (Vienna)

# RED OR GREEN?

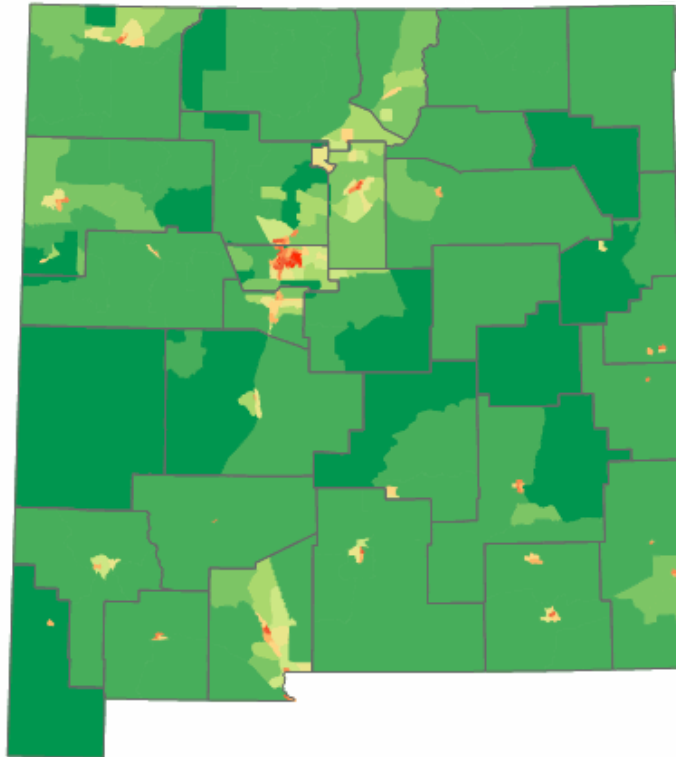


## OFFICIAL STATE QUESTION!

# THE LAND OF ENTANGLEMENT



Source: U. S. Census Bureau  
Census 2000 Summary File 1  
population by census tract.



# LOGISTICS

- Talks begin here at 9 a.m. daily. Intertalk gaps for questions. Talks recorded for web distribution later. Speaker for multi-author talks up to authors.
- Daily shuttle between La Fonda and here from 1 hr. before to 1 hr. after conference times  
(But seriously, walk off those holiday calories; it's only an 8 minute walk!)
- Two catered breaks per day; two hours allotted for lunch daily--- explore the many great dining options! Stop worrying and learn to love the state question.

# LOGISTICS

- Tuesday afternoon: Free! Explore Santa Fe while galleries, shops are open. Solve the Graph Isomorphism Problem. Etc., etc.
- Questions? Complaints? See me. Gen Y attendees and younger can e-mail me at [alandahl@unm.edu](mailto:alandahl@unm.edu)
- Posters: Set up any time (today preferred). Posters viewable continuously, with catered 2.5-hour dedicated poster session on Wednesday evening.

# LOGISTICS

- “Business meeting” From 5:00-6:00 p.m. on Thursday here, before cash bar cocktail hour. Open to all.
- QIP 2009 group photo: details forthcoming.
- Check website [qipworkshop.org](http://qipworkshop.org) for any late-breaking developments.





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