Outline and assignment for the NMR QIP review

Please add comments or papers based on it.

1. Brief introduction to QIP and NMR's advantages and shortcomings. (Dawei)
2. NMR basics and techniques, based on DiVincenzo's criteria. (Hemant and Dawei)
3. Reviews of recent experiments. (Everyone)
4. Benchmarking experiments. (Dawei)

12-qubit PPS in PRL 2006

Colm's randomized benchmarking in NJP 2009

Osama's 3-qubit solid NMR in PRL 2012

7-qubit certification

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1. Error Correction and topological quantum computing. (Annie)

Jingfu's encoding logical qubit in PRL 2012

magic state distillation in Nat Comm 2011

Guanru's and Annie's anyons experiments

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1. Foundations. (Aharon)

Gina's DQC1 in PRL 2009 and PRA 2011, 2012

Osama's contextuality test in solid in PRL 2010

weak measurement in NJP 2014

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1. Quantum simulations. (Hemant)

Jingfu's frustrated magnet in Nat Comm 2012

many body problems in PRL 2011

chiral quantum walks 2014

Jingfu's data bus in PRA 2009

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1. Conclusion and Perspective (Dawei)