

# Relativistic Quantum Information

Advanced Seminar Fall 2006

Course No. P500-006

Time: Tuesdays: 4:00 - 5:15 p.m.

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## References

(An ongoing list)

### 1 General References and Books

#### 1.1 Quantum Information

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#### 1.2 Quantum Field Theory, Special and General Relativity

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## 2 Review Articles

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2. R. Brout, S. Massar, R. Parentani and Ph. Spindel, *A Primer for Black Hole Quantum Physics*, Physics Reports *260*, pp. 329-446 (1995).
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4. S. Takagi, *Vacuum noise and stress induced by uniform acceleration: Hawking-Unruh effect in Rindler Manifold in arbitrary dimensions*, Progress in Theoretical Physics Supplement **88**, pp. 1-142 (1986); especially Chapter 2: *Thermalization Theorem*, pp. 7-33.

## 3 Articles: chronologically ordered

### 3.1 Entanglement, Lorentz Transformations and Bell's Inequalities

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2. A. Peres, P.F. Scudo, D.R. Terno, *Quantum entropy and special relativity*, Phys. Rev. Lett. **88**, 230402 (2002).
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4. R.M. Gingrich and C. Adami, *Quantum Entanglement of Moving Bodies*, Phys. Rev. Lett. **89**, 270402 (2002).
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### 3.5 Quantum Mechanics, Quantum Information and Closed Timelike Curves

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