

Quantum Theory in Search of Reality

Wednesday April 04

Seminar Topic: Bell, Einstein and EPR

Seminar Break: Taryn/Michael

Readings for presentations:

Boccio ---- Chapter_14 Sections 14.2-14.3 (pages 539-564)

Presentations:

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|---|-------------|
| Sections 14.2(pages 539-542)
Review of Basic Formalism | _Michael_ |
| Section 14.3.1(pages 543-544)
The Philosophical Stakes in the Debate | _Aileen_ |
| Section 14.3.1(pages 544-545)
From Como to Brussels(1927-30)
From Brussels to the EPR Paradox (1930-35) | _Eduardo_ |
| Section 14.3.1(pages 545-547)
Elementary Introduction to the EPR Paradox | _Yi-Wei_ |
| Section 14.3.1(pages 548-549)
The EPR Paradox(1935-52) | _Katy_ |
| Section 14.3.1(pages 549-551)
The BCHSH Inequality(1964) | _Taryn_ |
| Section 14.3.1(pages 551-552)
A Proof of Bell's Inequality | _Amir_ |
| Section 14.3.1(pages 552-555)
The BCHSH Inequality (or Bell's
Inequality in the real world) | _Carolyn_ |
| Section 14.3.2(pages 555-559)
The Relativistic Test | _Daniel_ |
| Section 14.3.3(pages 559-562)
The Relativistic Test | _Sam_ |
| Section 14.3.3(pages 562-564)
The Principle of Non-Separability | _Estefania_ |