Title: The Standard Model

Lecturer: Dr PICH, A

Date and Times: 22nd July at 11:15

25th July at 09:15 25th July at 10:15 26th July at 09:15 27th July at 09:15 27th July at 10:15 28th July at 09:15 29th July at 09:15

Summary of the proposed talk

The Standard Model of Elementary Particle Physics will be described. A detailed discussion of the particle content, structure and symmetries of the theory will be given, together with an overview of the most important experimental facts which have established this theoretical framework as the Standard Theory of particle interactions.

Prerequisite knowledge and references

Quantum Mechanics Suggested Reading:

- A. Pich, "The Standard Model of Electroweak Interactions", arXiv:hep-ph/0502010
- A. Pich, "Aspects of Quantum Chromodynamics", arXiv:hep-ph/0001118
- A. Pich, "The Standard Model of Particle Physics"
- 2004 CERN Summer Student Lectures:

http://agenda.cern.ch/tools/SSLPdisplay.php?stdate=2004-07-05&nbweeks=7

Biography

Doctor Antonio Pich:

Research Lines:

- Theoretical Physics, Quantum Field Theory
- Particle Physics Phenomenology (Electroweak & Strong interactions)
- Flavour dynamics. CP violation

Present Status :

- Since 1997: Editor JHEP

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- Since 1998: Professor of theoretical Physics, Instituto de Fisica Corpuscular (IFIC), University of Valencia- CSIC

Brief CV:

- 1979: Physics Diploma, University of Valencia
- 1983: PhD, University of Valencia
- 1984-1986: Post-Doc Max-Planck Institut, Munich
- 1987-1988: CERN Fellow
- 1989-1990 and 1994-1998: CSIC Research staff
- 1991-1993: CERN research staff (TH division)

Publications:

- 137 entries in SPIRES

http://www.slac.stanford.edu/spires/find/hep/www?rawcmd=a+pich

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