

Theoretical and experimental aspects of the spin-statistics connection and related symmetries

**Stazione Marittima Conference Center
Trieste, Italy
21-25 October 2008**

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For further information:

spinstat2008@ts.infn.it
<http://www.ts.infn.it/spinstat2008>

Conference secretariat:

I.N.F.N. – Sezione di Trieste
Via A. Valerio, 2
I-34127 Trieste, Italy
phone: +39 040 558 3367
fax: +39 040 558 3350
e-mail: spinstat2008@ts.infn.it

The workshop will focus on the spin-statistics connection and on related symmetries, both from the theoretical and from the experimental point of view. The workshop will bring together experimentalists, theorists, and philosophers to survey work done during the past years that challenges the traditional views of these issues. The workshop will also explore connections with rapidly developing fields such as other fundamental symmetries, supersymmetry and quantum gravity.

Background pictures: Wolfgang Pauli in 1924, approximately at the time he thought about a primitive form of the exclusion principle and on its role in the alkali atom spectra (Photo 11 from the Pauli Archive at CERN, © CERN Copyright, used with permission). The colored lines are a sodium gas emission spectrum.