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2012 J. J. Sakurai prize for theoretical particle physics recipient

[unknown], [unknown]

2012

[Link to publication](#)

Citation for published version (APA):

[unknown], . (2012). 2012 J. J. Sakurai prize for theoretical particle physics recipient.

Total number of authors:

1

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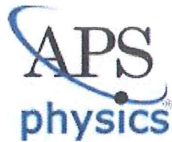
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2012 J.J. Sakurai Prize for Theoretical Particle Physics Recipient

Torbjorn Sjostrand
Lund University

Citation:

"For key ideas leading to the detailed confirmation of the Standard Model of particle physics, enabling high energy experiments to extract precise information about Quantum Chromodynamics, electroweak interactions and possible new physics."

Background:

Torbjörn Sjöstrand obtained his Bachelor degree in 1976 and his Ph.D. in 1982, both from Lund University (Sweden). He spent shorter postdoc periods at DESY (Germany) and Fermilab (USA), was back a few years in Lund, and then 1989-95 was staff member in the CERN theory group. He thereafter returned to Lund, at first as a researcher and since 2000 as a full professor. Starting in 2004 he was on a three-year "sabbatical" at CERN. He was awarded "Edlundska priset" in 1992 by the Swedish Royal Academy of Sciences, and has been active within the Swedish Physical Society. He has participated in numerous major workshops, often as convener.



Sjöstrand is most known as the main author of the Jetset and Pythia event generators, which describe collision processes by a combination of theory and phenomenological models, many of them developed by himself. These generators have been used by essentially all high-energy collider experiments from the early 80ies onwards, and are highly cited. Currently he is working on improving the understanding of LHC data.

Selection Committee:

Joseph Lykken, Chair; L. Reina; Z. Bern; G. Guralnik; J. Wells

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